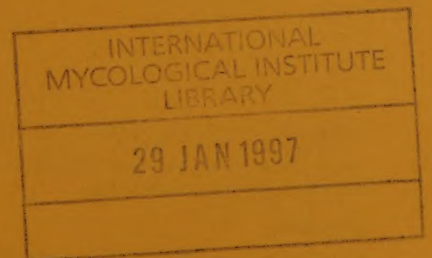


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Telephone: Wallingford (01491) 832111

Telex: 847964 (COMAGG G) Fax: (01491) 833508

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GENERAL ASPECTS OF RESEARCH AND ITS APPLICATION	1	125	233	349	465	585	697	817	929	1029	1145	1259
TEMPERATE TREE FRUITS AND NUTS	7	133	240	356	470	592	703	824	936	1036	1150	1266
Almonds	9	134	240	357	472	593	704	824	937	1037	1151	1267
Apples	9	134	241	357	472	593	704	825	937	1037	1151	1267
Apricots	18	142	248	366	478	604	709	831	946	1047	1159	1276
Cherries	19	143	248	367	479	604	709	831	946	1048	1163	1278
Chestnuts	20	143	249	368	480	605	710	832	—	1049	—	1279
Cobnuts and hazelnuts	—	143	—	368	480	605	710	833	947	1049	1164	1279
Figs	20	144	—	368	480	605	711	833	947	1050	1164	1279
Mulberries	20	—	—	—	—	605	711	—	—	1050	1165	1279
Peaches and nectarines	20	144	249	369	481	605	711	833	947	1050	1165	1279
Pears	22	145	251	372	487	607	714	835	948	1051	1168	1282
Pecans and hickories	23	147	252	373	—	608	715	836	949	1053	1170	1284
Pistachios	—	—	252	373	489	—	715	836	949	1054	1170	1284
Plums, prunes and damsons	24	147	252	374	489	608	715	837	949	1054	1170	1284
Quinces	25	148	—	374	490	609	—	—	—	—	1171	—
Walnuts	25	148	254	374	490	—	716	837	950	1054	1171	1284
Sundry crops	—	—	254	—	490	—	716	—	—	1055	1171	1285
SMALL FRUITS	26	149	254	375	490	610	717	837	951	1056	1171	1286
<i>Actinidia</i> species	26	149	254	375	490	610	717	837	951	1056	1171	1286
Currants	28	149	255	377	491	611	717	838	952	1057	1173	1287
Gooseberries	—	—	—	377	—	611	717	—	952	—	1173	1287
Minor <i>Ribes</i> species	—	—	—	—	—	—	—	838	—	—	—	—
Blackberries	28	—	—	377	491	611	717	838	—	1057	1173	1287
Raspberries	28	150	255	377	492	611	717	839	952	1057	1173	1287
Minor <i>Rubus</i> species	29	150	—	—	—	—	718	840	952	—	1173	—
<i>Vaccinium</i> species	29	150	255	377	492	612	718	840	952	1058	1174	1288
Strawberries	30	151	256	377	493	612	719	841	953	1059	1174	1288
Sundry crops	32	152	258	—	—	614	722	842	955	1060	1176	1290
VITICULTURE	32	152	259	379	495	614	722	842	955	1061	1176	1290
VEGETABLES, TEMPERATE, TROPICAL AND GREENHOUSE	39	158	263	384	502	619	725	848	961	1067	1181	1296
Alliaceae	41	160	265	386	505	621	727	850	962	1069	1184	1297
Garlic	41	160	265	386	—	621	727	850	962	1069	1184	1297
Leeks	42	161	265	387	505	621	728	851	963	1069	1184	1297
Onions	42	161	266	387	505	621	729	851	964	1069	1184	1297
Other Alliaceae	43	162	268	388	507	623	733	852	—	1070	1186	1300
Chenopodiaceae	43	162	268	389	508	623	733	852	965	1070	1186	1300
Beetroots	43	162	268	389	508	623	733	—	965	1070	1186	1300
Spinach	43	162	268	389	508	623	734	852	965	1070	1186	1300
Spinach beets	44	—	269	391	509	—	—	854	—	—	—	—
Other Chenopodiaceae	—	—	—	—	—	—	—	854	—	—	—	—
Compositae (Asteraceae)	44	163	269	391	509	624	734	854	966	1072	—	1301

Artichokes (Jerusalem)	44	—	269	—	509	624	—	854	—	1072	—	1301
Artichokes (globe)	44	163	—	—	509	624	734	—	966	—	—	—
Cardoons	—	—	—	—	—	—	—	—	—	—	—	—
Chicory	44	163	270	391	510	624	735	854	966	1072	1187	1301
Endives	45	164	—	391	510	625	—	—	966	—	—	—
Lettuces	45	164	270	391	510	625	735	854	966	1072	1187	1302
Salsify	—	—	—	—	—	—	—	—	—	—	—	—
Scorzonera	—	166	273	—	512	—	—	—	—	—	—	1303
Other Compositae	47	—	273	392	—	627	736	855	—	1074	1188	—
Cruciferae (Brassicaceae)	47	166	273	392	512	627	736	855	967	1074	1188	1303
Brassicas	47	166	273	392	512	627	736	855	967	1074	1188	1303
Cress	—	—	—	—	516	—	739	—	970	1076	—	—
Radishes	49	169	274	394	517	628	739	857	970	1076	1190	1308
Watercress	—	—	—	—	—	—	—	858	—	—	1191	1308
Other Cruciferae	—	—	—	395	—	—	—	—	—	—	1192	1308
Cucurbitaceae	49	169	275	395	517	629	740	858	971	1077	1192	1308
Leguminosae (Fabaceae)	53	172	278	399	520	633	745	862	974	1080	1194	1311
Beans (<i>Phaseolus</i>)	53	172	278	399	520	633	745	862	974	1080	1194	1311
Beans (<i>Vicia</i>)	54	173	281	401	522	635	749	864	975	1082	—	1313
Beans (<i>Cyamopsis</i>)	55	—	281	401	—	—	750	—	—	—	1196	—
Peas	55	174	281	401	522	635	750	864	975	1082	1196	1313
Other Leguminosae	57	—	284	—	523	636	754	867	—	1084	1198	—
Liliaceae	57	176	284	403	523	636	754	867	977	1084	1198	1315
Asparagus	57	176	284	403	523	636	754	867	977	1084	1198	1315
Other Liliaceae	—	—	—	—	—	—	—	868	—	—	—	1316
Malvaceae	58	177	284	404	—	637	755	868	977	1084	1198	1316
Okras	58	177	284	404	—	637	755	868	977	1084	1198	1316
Other Malvaceae	—	—	285	—	—	—	—	—	—	—	—	—
Polygonaceae	59	—	285	—	—	—	—	—	—	—	—	1316
Rhubarb	59	—	—	—	—	—	—	—	—	—	—	1316
Other Polygonaceae	—	—	285	—	—	—	—	—	—	—	—	—
Solanaceae	59	177	285	404	524	637	755	869	978	1084	1199	1316
Capsicums	59	177	285	404	524	637	755	869	978	1084	1199	1316
Aubergines	61	179	286	406	525	639	756	870	979	1086	1201	1318
Tomatoes	61	180	287	407	526	639	757	871	980	1087	1201	1318
Other Solanaceae	—	—	291	—	—	—	—	—	—	—	—	—
Umbelliferae (Apiaceae)	70	187	292	415	533	646	762	876	986	1094	1207	1323
Carrots	70	187	292	415	533	646	762	876	986	1094	1207	1323
Parsnips	—	—	—	—	—	—	—	—	—	—	—	—
Celery	71	188	293	416	534	647	763	877	—	1096	1207	1324
Celeriac	—	188	293	416	—	—	763	—	988	—	—	—
Other Umbelliferae	—	189	293	416	—	—	763	878	—	1096	1207	—
Sundry crops	71	189	293	416	534	647	764	878	988	1096	1207	1324
Mushrooms and other edible fungi	72	189	293	417	535	648	764	878	988	1097	1208	1325
ORNAMENTAL PLANTS	74	191	298	423	536	649	767	881	989	1099	1209	1327
Annual and herbaceous plants — general	75	193	299	424	—	650	767	881	990	1099	1210	1328
Antirrhinums	—	—	—	—	537	—	768	881	990	—	—	—
Carnations and pinks	75	193	299	424	537	650	768	881	990	1100	1211	1328

Chrysanthemums	76	194	300	425	537	650	769	—	991	1100	1211	1329
Gerberas	77	—	—	426	537	—	769	882	991	1100	1212	1330
Morning glories	—	194	—	426	537	651	770	882	991	1101	1213	—
Pelargoniums	—	195	300	426	537	651	770	882	—	1101	1213	1330
Petunias	77	195	300	426	538	652	770	882	991	1101	1213	1330
Primulas	77	—	—	427	538	—	—	—	—	—	—	—
Saintpaulias	77	—	301	—	—	—	—	—	—	—	—	—
Other annual and herbaceous plants	77	195	301	427	538	652	771	883	991	1101	1214	1330
Bulbs, tubers, etc. — general	79	—	302	—	—	—	773	884	—	1104	—	1332
Anemones	—	—	—	—	—	—	773	—	—	—	—	—
Begonias	79	—	302	430	—	654	773	—	994	1104	—	1332
Crocuses	—	196	—	—	—	—	—	—	—	—	—	1332
Cyclamens	79	—	302	430	542	—	773	—	—	—	1215	1332
Dahlias	—	196	—	—	542	654	773	—	—	1104	—	—
Freeseias	80	197	—	—	—	—	773	884	—	1104	1216	—
Gladioli	80	197	—	430	—	—	773	884	994	1104	1216	1332
Gloxinias	—	—	—	—	—	—	—	—	—	—	—	—
Hyacinths	81	—	302	—	542	—	773	—	995	1104	—	1332
Irises	—	197	—	—	542	—	774	—	—	1104	1217	1333
Lilies	81	197	302	431	542	654	774	884	995	1104	1217	1333
Narcissi	—	—	—	—	543	—	774	—	—	1105	1217	1333
Nerines	—	—	—	—	543	—	774	—	—	—	—	—
Tulips	82	197	—	431	543	654	774	885	995	1105	1218	—
Other bulbs, tubers, etc.	82	198	303	431	543	655	774	885	995	1105	1218	1333
Lawns and turf	83	199	304	432	544	656	775	887	996	1106	1219	1335
Aquatic plants	84	199	306	432	546	656	—	887	997	1108	1220	—
Foliage and succulent plants — general	84	199	306	—	547	657	777	887	997	—	1220	1337
Bromeliads	85	200	—	433	—	—	777	—	—	1108	—	—
Ferns	—	200	306	433	547	657	777	887	997	1108	—	—
Other foliage and succulent plants	85	200	306	433	547	657	777	888	997	1108	1220	1337
Orchids	87	201	307	434	548	660	779	889	998	1110	1223	1339
Woody plants — general	88	203	309	435	550	661	780	891	1000	1111	1224	1341
Bougainvilleas	—	203	—	—	—	661	—	892	1001	—	—	—
Camellias	89	203	311	436	—	—	781	892	—	—	—	—
Conifers	89	203	311	436	—	—	—	892	1001	1112	1225	—
Heaths and heathers	—	—	—	437	—	—	—	892	—	1112	—	1342
Hollies	89	—	—	437	—	—	781	—	—	—	—	1342
Hydrangeas	—	—	—	437	—	662	—	—	—	1112	—	1342
Ivies	—	204	—	437	550	—	781	892	1001	—	—	—
Jasmines	89	204	—	—	—	—	—	892	1001	—	1225	—
Lilacs	89	204	312	437	—	—	—	892	—	—	1226	—
Magnolias	—	—	—	—	550	—	—	893	—	1112	1226	—
Poinsettias	90	204	—	438	551	662	—	893	1001	—	1226	—
Rhododendrons and azaleas	90	204	312	438	551	662	781	893	1001	1112	1226	1342
Roses	90	205	312	439	552	662	782	894	1002	1113	1226	1343
Other woody plants	91	205	313	440	553	664	783	895	1003	1114	1228	1344
MINOR TEMPERATE AND TROPICAL INDUSTRIAL CROPS	93	208	316	441	556	667	788	898	1005	1116	1230	1345

Condiment and spice plants	93	208	316	441	556	667	788	898	1005	1116	1231	1345
Dye plants	94	—	317	442	557	667	789	899	1006	1117	1231	1347
Essential oil plants	94	209	317	442	557	668	789	899	1007	1118	1232	1347
Hard fibre plants	95	—	318	—	557	670	791	901	—	—	1234	1348
Hops	—	210	318	444	557	—	791	—	—	1119	1234	1349
Insecticidal and other pesticidal plants	—	—	—	—	558	—	791	901	1009	—	1234	1349
Medicinal plants	95	210	318	444	558	670	791	901	1009	1119	1235	1349
Perennial fatty oil plants	96	—	—	446	560	—	794	904	1012	1122	1237	1353
Sundry plants	96	212	322	447	561	672	794	904	1012	1122	1237	1353
SUBTROPICAL FRUIT AND PLANTATION CROPS	98	214	323	447	561	673	795	905	1013	1122	1237	1354
Avocados	98	214	323	447	561	674	795	905	1013	1122	1238	1354
Carobs	—	214	—	450	563	—	—	905	—	—	—	1355
Citrus	102	215	324	450	563	674	796	906	1013	1123	1238	1355
Dates	106	218	329	—	569	682	801	911	1018	—	1241	1360
Feijoas	—	—	330	—	—	682	801	—	—	1127	—	—
Litchis	106	219	330	454	570	682	801	911	1018	1127	1241	1361
Longans	—	—	330	454	—	683	801	911	—	—	1242	1361
Loquats	107	221	—	—	571	683	801	912	—	1127	1242	1361
Macadamias	—	—	331	—	571	683	801	—	—	1128	—	1362
Olives	107	221	331	454	—	683	802	912	1018	1128	1242	1362
Passion fruits	108	—	—	455	572	684	803	913	1020	1129	1243	1363
Persimmons	108	222	333	456	572	684	803	914	1020	1129	1243	1363
Pomegranates	109	222	333	456	573	685	803	—	—	1130	—	1364
Prickly pears	—	—	334	—	573	685	803	914	1020	1130	1244	1364
Tamarillos	—	—	334	456	—	686	804	—	—	1130	—	—
Tung	—	—	—	—	—	—	—	—	—	—	—	—
Sundry crops	109	222	334	—	573	686	804	914	1020	1130	—	—
TROPICAL FRUIT AND PLANTATION CROPS	109	222	334	457	574	687	804	914	1020	1130	1244	1365
<i>Annona</i> species	—	223	334	457	—	687	804	915	1020	1130	1244	1365
<i>Areca</i> species	—	—	—	—	—	—	804	915	—	—	—	—
<i>Artocarpus</i> species	—	223	335	457	—	687	—	915	1021	—	—	—
Bananas and abaca	110	223	335	457	574	687	804	915	1021	1130	1244	1366
Cashews	111	224	336	459	576	689	806	917	1023	1132	1246	1366
Cocoa	111	225	336	459	577	689	806	917	1023	1132	1246	1366
Coconuts	112	225	337	459	577	689	806	918	1023	1133	1246	1367
Coffee	113	225	337	459	577	689	807	918	1023	1133	1247	1367
Cola	—	—	—	—	—	—	—	—	—	1134	—	—
Cucurbitaceous fruits	113	226	338	460	578	690	808	921	1024	1134	1248	1368
Guavas	115	228	340	462	580	692	810	921	1025	1136	1249	1369
Mangoes	115	228	341	462	580	692	811	921	1025	1136	1250	1370
Oil palms	116	230	341	462	582	692	811	924	1026	1137	1251	1374
Pawpaws	116	230	342	462	582	693	812	924	1026	1137	1252	1374
Pineapples	117	—	343	463	582	694	812	924	1026	1138	1253	1375
Rubber (<i>Hevea</i>)	117	230	343	463	582	694	812	925	1027	1138	1253	1375
Sapodillas	119	231	—	—	583	—	813	925	—	1140	1254	1376
Tea	119	231	345	463	583	694	814	925	1027	1141	1254	1376

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AUTHOR INDEX

- A-As-Saqi, M. 5798
 Aach, H. 3185
 Aaltonen, M. 2859
 Aarouf, J. 9384-9385
 Aartrijk, J. van 8195
 Aartse, J. W. 396
 Aasiya, B. B. 5154
 Abada, K. A. 5732
 Abadia, J. 3705
 Abalde, J. 3544
 Abaram, C. C. 3650
 Abate, D. 6984
 Abbas, E. 5919
 Abbas, M. 4950, 5346
 Abbas, M. F. 3693
 Abbas, N. S. 4442, 9532, 11025
 Abbas Hussain, S. 10970
 Abbasi, Q. D. 2772
 Abbass, H. 9579
 Abbès, C. 2133-2134
 Abbes Tanji 2806
 Abbott, A. G. 6615
 Abbott, J. A. 6592, 6646
 Abboud, S. A. 8066
 Abd-Alla, M. H. 431
 Abd-El-Al, A. A. 9979
 Abd-El-Daim, H. M. 9921
 Abd-El-Gawad, M. M. 7314, 9610
 Abd-El-Ghani, T. 10305
 Abd-El-Hadi, N. I. M. 6279
 Abd-El-Hady, N. I. M. 9839, 9921
 Abd-El-Hamid, M. F. 9839, 9921
 Abd-El-Hamid, N. 6382
 Abd-El-Sabour, B. 3632-3633
 Abd-El-Samad, H. M. 2206, 9535
 Abd-El-Wahab, S. 8118
 Abd-El-Wahab, W. A. 4784, 6558
 Abdala, A. 8401
 Abdalla, M. M. 9494
 Abdalla, M. M. A. 4066, 4127-4128
 Abdalla, S. 6933
 Abdallah, N. M. 394, 5881
 Abdel-Fatah, O. M. 428-429
 Abdel Fattah, Y. M. M. 8752
 Abdel-Hady, N. I. M. 9839
 Abdel-Hamid, M. F. 9839
 Abdel-Hamid, N. 3849, 3857
 Abdel-Megeed, M. I. 9514
 Abdel-Moaty, M. 9513
 Abdel-Rahim, E. A. M. 428-429
 Abdel-Rahman, A. G. 6366
 Abdel-Rahman, A. M. 3584
 Abdel-Rahman, S. Z. 5992, 7681
 Abdel Wahab, A. M. 431
 Abdelali, F. 10823
 Abdellaoui, S. 8083
 Abdelnour-Esquivel, A. 4570
 Abdi, A. N. 325, 2113
 Abdin, M. Z. 9848
 Abdollah, S. 9934
 Abdulkarimov, A. A. 5893
 Abdul Awal 8024
 Abdul-Baki, A. A. 6014, 9586
 Abdul Jabbar 7123
 Abdul Kareem, A. 1788
 Abdul Khader, J. B. M. M. 8933
 Abdul Rahim 3374
 Abdul Sahib, N. 5615
 Abdul Salam, M. 5467
 Abdulla Koya, K. M. 3515
 Abdullaev, Sh. 5307
 Abdulwakil, I. M. 5453
 Abdur-Rab 10685-10686
 Abe, F. 10867
 Abe, H. 4325, 5033-5034, 6135
 Abe, M. 4513
 Abe, T. 6881
 Abelev, E. A. 6726
 Abenavoli, L. 7246
 Abenavoli, M. R. 6957, 9621
 Abercrombie, R. A. 4500
 Abernethy, R. J. 9833
 Abeysinghe, D. C. A. 2745
 Abid, M. 7766
 Abney, G. D. 10578
 Abo-El-Ghait, E. M. 9771-9772, 9837-9838
 Abo-El-Seoud, M. A. 1338, 4107
 Abo-Hassan, A. A. 6218
 Abo-Shady, A. 9577, 9607
 Abou-Aziz, A. B. 4562-4563
 Abou-El-Maati, S. 10575
 Abou-Hadid, A. F. 2226, 5892, 6026, 6056, 7681, 9581, 9826, 9965
 Abou-Leila, B. H. 9842
 Abou-Mandour, A. A. 1679
 Abou-Taleb, N. S. 7042, 7075
 Aboul-Nasr, A. 7013, 10634
 Aboul-Nasr, M. H. 4066, 4127-4128
 Abraham, C. C. 3514
 Abraham, C. T. 9949
 Abraham, K. 9948
 Abraham, M. 5467, 9944
 Abraham, V. 8706
 Abrahams, B. R. 1807, 9041, 10198
 Abrahamsson, K. 10807
 Abrecht, H. 10395
 Abu-Blan, H. 5898
 Abu-Irmaileh, B. E. 1033
 Abu-Sharar, T. M. 2980
 Abulfatih, H. A. 10781
 Acar, J. 9583
 Acar, M. 1134
 Acatrinei, F. 3763, 3902
 Accardo, A. 5950
 Accati, E. 8743
 Acciarri, N. 6053
 Accordi, S. M. 10199
 Acharya, P. K. 8560
 Achicanoy, H. 8157
 Ackerman, J. D. 7944
 Ackerman, R. 2395
 Ackerman, W. L. 710, 714
 Ackermann, I. 5553
 Acock, B. 4233-4234
 Acock, M. C. 8922
 Acosta, A. 4656
 Acosta, J. 8074
 Acosta, J. F. 7210-7212, 7214
 Acosta, M. 6993
 Acosta Rodriguez, G. F. 2283
 Acuña-Cepeda, M. E. 9946-9947
 Adachi, K. 5294
 Adachi, M. 6803
 Adachi, T. 4013, 4367
 Adachi, Y. 5913, 5920
 Adam, D. 6878, 9545
 Adam, G. 467, 535, 4239
 Adam, S. 9300
 Adam, S. T. 9997
 Adamczewska-Sowińska, K. 1281
 Adami, A. 3332
 Adamicki, F. 4956
 Adams, A. J. 1713
 Adams, A. N. 6270
 Adams, C. J. 3572
 Adams, G. 5637
 Adams, N. 7902
 Adams, P. 2304, 2797, 3284
 Adams, W. W., III 708-709, 4695
 Adamse, P. 8582-8583
 Addante, T. 3830
 Addelbasit, K. M. 10874
 Ade, B. R. 4256
 Adelaja, B. A. 9930
 Adelaja, F. E. 487
 Adelberg, J. 6495
 Adema, E. H. 8843
 Adeniyi, A. A. 6968
 Adeniyi, O. R. 7798
 Adhikari, B. 9437
 Adkins, S. W. 9004
 Adler, J. H. 350
 Adler, P. R. 1815
 Adomako, D. 3639
 Adomas, B. 770
 Adrian, J. 1580
 Adriano, D. C. 2107
 Adu Tulie, K. 1784
 Aducci, P. 6766
 Aerny, J. 267
 Aerts, R. J. 8025
 Afanaskina, I. P. 765
 Afele, U. 1489-1490
 Afele, J. C. 10533
 Affolter, J. M. 9677
 Afifi, W. M. 6382
 Afsharypuor, S. 1682
 Afza, R. 6057
 Agabbio, M. 845, 8967
 Agamalian, H. 9365, 9395
 Ağaoğlu, Y. S. 308
 Agapkin, G. I. 4936
 Agapov, V. 1358, 6819
 Aġar, Ġ. T. 147
 Aġar, T. 4894, 5641, 6341, 8082, 10183
 Agarwal, S. K. 10905
 Agata, W. 8828
 Agati, G. 9527
 Agatsuma, M. 7496
 Agbor, A. N. 9001
 Agenbag, G. A. 9963
 Agerer, R. 5152
 Ageta, H. 8817
 Aggarwal, A. 10943
 Aggarwal, K. K. 2253
 Aggenbach, S. J. 5766
 Agnello, A. M. 8300
 Agnew, N. H. 595, 1595
 Agnihotri, N. P. 1460
 Agnolin, C. 8213
 Agong, S. G. 4556, 9572
 Agosteo, G. E. 476
 Agostini, D. 8398
 Agostini, T. da S. 8110
 Agostino, A. 9853
 Agrawal, A. 6059
 Agrawal, R. 3603
 Agrotica 10287
 Aguado, P. 8109
 Agudelo-Silva, F. 3754
 Agüero, C. 1227
 Aguiar, E. L. 6201
 Aguiar, J. 1031
 Aguilar Becerril, G. 5447
 Aguilera, C. 1215
 Aguirre, Y. 4994
 Agustí, M. 1738, 2619, 4705, 5384, 7217
 Agustini, V. 10499
 Ahamide, B. 5562
 Aharoni, N. 1489-1490
 Aharonson, N. 888
 Ahlawat, V. P. 3984
 Ahmad, H. 684-685
 Ahmad, K. A. 8204-8205
 Ahmad, K. J. 2159
 Ahmad, M. 597
 Ahmad, R. 4199
 Ahmad, T. R. 1056
 Ahmad Makmom Abdullah 7375
 Ahmadian, P. 2274, 4185
 Ahmed, A. W. K. 848
 Ahmed, F. A. R. 428-429
 Ahmed, F. F. 5437, 6634
 Ahmed, I. A. 848
 Ahmed, M. 2573, 3690, 8024
 Ahmed, M. A. 4518-4520, 5313, 7403, 10758
 Ahmed, M. S. 10438
 Ahmed, N. 5120
 Ahmed, R. 6517, 6875
 Ahmed, R. B. 6366, 10898
 Ahmed, S. M. 1338, 4107
 Ahmed, S. S. 8042
 Ahmedullah, M. 8463
 Ahn, B. J. 665
 Ahn, C. S. 3891, 10426
 Ahn, H. G. 10659
 Ahn, J. H. 3145
 Ahn, S. J. 4131
 Ahn, Y. H. 601
 Ahn ByungJoon 665
 Ahn ChangSoon 3891, 10426
 Ahn HyungGeun 10659
 Ahn SungJu 4131
 Ahn YoungHee 601
 Ahsan, H. 10151
 Ahumada, M. 4565
 Ai, X. Z. 3518
 Ai XiZhen 3518
 Aida, H. 5092, 8655
 Aida, K. 5899
 Aida, M. 1777
 Aidam, A. 8620
 Aiello, G. M. 6326
 Aiga, I. 1903, 10065
 Aigbodion, A. I. 948
 Aik-Hwee, E. 6447
 Aikman, D. P. 8659
 Ainie, K. 8155
 Aino, M. 4013
 Airhart, D. L. 1909
 Airhart, K. M. 1909
 Airoldi, G. 1949
 Ait Barka, E. 5763
 Ait-Oubahou, A. 4801, 5630, 6837-6838, 7221, 7394, 7965
 Aitken, R. L. 6353
 Ajaylaagbe, O. 880
 Ajana, H. 7251
 Ajay 9598
 Ajay Kumar 5786, 6744, 6755
 Ajay Pandey 8507
 Ajay Singh 567
 Ajlouni, M. A. 10537
 Akabane, M. 9781
 Akagawa, T. 4802, 9918
 Akalumhe, Y. O. 6375
 Akanda, A. M. 1426
 Akça, Y. 9262
 Akçam, E. 762
 Akçay, M. E. 10193
 Akele, S. 6375
 Akey, D. H. 2613
 Akhmetova, M. 6134
 Akhtar, A. S. 7776
 Akhtar, M. 1454
 Akhtar Husain 9835
 Akilan, K. 1642, 2494
 Akilioğlu, A. 8100
 Akiri, B. 6257
 Akita, S. 9369-9370
 Akiyoshi, H. 164, 844, 907, 9402
 Akl, M. A. 5437, 6634
 Akliu, S. 6759
 Akogo, Y. 8620
 Akomeah, F. 3639
 Akoumianakis, K. 416
 Akpan, E. J. 6058
 Akpanyung, E. O. 6058
 Akram, M. 5195
 Aksanova, N. A. 2071
 Aksoy, U. 8343, 9120, 9243, 9272
 Aktaş, M. 364, 3094, 7669, 10419
 Akwakwa, D. O. 6079

- Akyalçin, H. 8018
 Akyeampong, E. 5457
 Al-Amer, M. A. 2630
 Al-Ansari, F. M. 9500
 Al-Bachir, M. 2648, 4793, 10353
 Al-Bahrany, A. M. 1289, 2630, 5998
 Al-Barkouli, A. A. 10349
 Al-Bashir, A. H. 10327, 10349
 Al-Dosari, S. A. 9445
 Al-Ebrahim, B. A. 6916
 Al-Ghamdi, A. S. 3957, 4536, 10869-10871
 Al-Habash, K. 9399
 Al-Harbi, A. R. 10463
 Al-Islail, N. Y. 1289
 Al-Jounaid, A. M. 9550
 Al-Khatib, K. 161, 2817, 6672, 8548
 Al-Maarri, K. W. 3957, 4536
 Al-Majali, M. A. 6412
 Al-Mallah, M. K. 3130
 Al-Masoum, A. A. 10490
 Al-Niami, J. H. 3693
 Al-Omran, A. M. 10463
 Al-Rajhi, M. A. 850
 Al-Rifa'i, J. H. 419
 Al-Said, F. 8675
 Al-Shayeb, S. M. 850
 Al-Shuraiqi, Y. T. 419, 3181
 Al-Subu, M. M. 2269, 2278, 4691
 Al-Surakhy, R. A. 3181
 Al-Swaidan, H. M. 4537
 Al-Warthan, A. A. 4537
 Al-Yahyai, R. A. 3282
 Al-Yhyai, R. A. 8675
 Al-Zahrani, H. S. 9832
 Al-Zidgali, T. 8647, 8647
 Al-Zidgali, T. M. 5364
 Alabouvette, C. 4220
 Alagarda, J. 503
 Alagesaboopathi, C. 5332, 7157, 8815, 9847
 Alagesan, V. 9551
 Alaka Srivastava 9537
 Alam, K. 4962
 Alam, M. Z. 1426, 9486
 Alamgir, A. N. M. 2199, 10461
 Alamsyah, R. 6988
 Alan, R. 1294
 Alarcón, J. J. 4242, 10091
 Alarcón, O. 7302
 Alarcón Méndez, O. 8136-8137, 8141
 Alarze, A. 505
 Alauzet, C. 2208
 Alba, F. 3620
 Albagnac, G. 5986
 Albajes, R. 5903
 Alban, C. 6872
 Albanese, G. 4720
 Albano, J. P. 7887-7888
 Albarracín, M. 4994, 5135, 10421
 Albe, X. 5839
 Albelda, C. 2612
 Alberghina, O. 7544
 Albert, R. 408, 3080, 6825, 7737
 Albertini, A. 4813
 Alberto, E. 10586
 Albi, M. A. 1215, 5432, 8104-8105
 Albisu, L. M. 1010
 Alblas, J. 3076
 Albrecht, M. L. 9805
 Albregts, E. E. 3942, 4887, 8425-8426, 9366
 Albright, L. D. 1906
 Albrigo, L. G. 6331
 Albuquerque, P. S. B. 9017
 Alcántara, E. 2649, 6358, 9285
 Alcántara, R. L. 4986
 Alcaraz, C. F. 5996, 7775, 8626
 Alcaraz, S. 5847
 Aldaba, F. R. 895
 Aldana, L. 3681
 Aldazábal, M. 7302
 Aldazábal Romero, M. 8136-8137, 8141
 Alderson, P. G. 654
 Aldrich, H. C. 3418
 Aldrich, J. H. 5261
 Aldrich, T. S. 1428
 Aldwinckle, H. S. 1937
 Aleemullah, M. 9063
 Alegresa, G. 6681
 Aleksandrov, V. Ya. 6523
 Alekseeva, O. N. 8348
 Alekseeva, T. F. 9517
 Alemanno, L. 6400, 10916
 Alés, G. 7607
 Alessandri, S. 9911
 Aletor, V. A. 2333
 Alexander, C. J. 5392
 Alexander, J. C. M. 3699
 Alexander, M. P. 6749
 Alexiou, F. 8988
 Ali, A. D. 8747
 Ali, A. G. 9885
 Ali, G. A. 6658
 Ali, H. 9961
 Ali, I. A. 8685
 Ali, M. 1426, 5092, 8655, 9486, 10834
 Ali, M. A. 1056, 3690
 Ali, M. I. 3149
 Ali, N. 2545
 Ali, S. A. 4434-4435
 Ali, Z. 496
 Ali, Z. A. 5054, 5104
 Ali, Z. M. 2733
 Ali-Ahmad, M. 6546
 Alikaşifoğlu, K. 9530
 Alimkulov, D. M. 3790
 Alip Borthakur 6383
 Alipaz, N. J. 286, 1245
 Alipieva, M. 10422-10423
 Alique, R. 3342
 Aliudin, R. 6467
 Aliverti, A. 6768
 Aliyu, L. 2319
 Alizedeh, H. 6940
 Aljuburi, H. J. 7231
 Allaire, S. E. 6233
 Allakhverdiev, S. I. 5970
 Allan, P. 9992, 10213, 10215
 Allard, G. 4840
 Allemand, P. 8846
 Allen, A. K. 655
 Allen, B. 9454
 Allen, J. F. 9541
 Allen, J. M. 1980, 9349
 Allen, L. 4657
 Allen, R. A. 97, 4753
 Alleweldt, G. 5753
 Alleyne, V. 10278
 Allison, J. 5721
 Allison, J. R. 7423
 Alliston, T. N. 412
 Allwood, M. E. 810, 4483
 Alma, A. 1153
 Almaguer, G. 10945
 Almalotidis, D. D. 5654
 Almanza-Enrique, J. G. 744
 Almasi, S. 7650
 Almazov, B. N. 4942
 Almeida, A. A. F. de 7304
 Almeida, A. G. 10913
 Almeida, D. L. de 8669
 Almeida, F. C. G. 10913
 Almeida, H. A. de 7995
 Almeida, I. M. G. 3402
 Almeida Lima, A. de 940
 Almela, L. 303, 4003
 Almela, V. 2619, 4705, 5384, 7217
 Alok Nandi 8642
 Aloni, B. 10530
 Aloni, R. 5904
 Alonso, A. 2610
 Alonso, J. M. 3606
 Alpaslan, M. 8627
 Alpha, M. J. 6132
 Alpi, A. 5914
 Alsadon, A. 5088
 Alspach, P. 10175
 Alspach, P. A. 8399
 Alston, A. M. 960
 Alston, F. H. 3889
 Alston, J. M. 74
 Alterio, M. 10405
 Altindisli, A. 9382-9383, 10332-10333
 Altmann, A. 3386
 Altschmied, L. 7679
 Altshul, L. M. 7644
 Altube, H. A. 5667
 Aluja, M. 3681
 Alum, Prince N. 10095
 Aluri, R. J. S. 8010
 Alva, A. K. 5375
 Alvarado, J. J. 6416
 Alvarado, M. 3873
 Alvard, D. 30, 6400, 7260
 Alvarenga, A. A. de 8258
 Alvarez, C. E. 5505
 Alvarez, I. 10595
 Alvarez A., M. 223
 Alves, E. J. 9929
 Alves, R. E. 3663
 Alves, R. J. V. 3456
 Alves, R. N. B. 4639
 Alvino, A. 8789
 Alwadi, H. M. 10781
 Aly, M. A. 7270
 Amadei, E. 1256
 Amadò, R. 142-143
 Amal, M. K. 7317
 Amano, S. 164, 214, 9402
 Amar Singh 10379
 Amaral Júnior, A. T. do 7696
 Amaranite, C. V. T. do 5488
 Amăriutei, A. 9668, 9698
 Amarjeet Singh 10663
 Amarnath, C. H. 4598
 Amaro, A. 10331
 Amaro López, M. A. 2265, 6880
 Amato, G. 5950
 Amatya, L. K. 9437
 Ambika, S. R. 5324
 Ambulkar, M. R. 10380
 Ameen, H. H. 1729
 Americanos, P. G. 3071, 8500, 8513, 8549
 Ameyibor, E. 6767
 Aminuddin, H. 365
 Amir, H. 851
 Amir Fatima 8227
 Amiri, M. E. 1556
 Amita Gulati 2136
 Amitai-Zeigerson, H. 2314
 Amitava Ghosh 6464, 9110
 Amla Batra 7989
 Ammerlan, J. C. J. 26
 Ammosov, A. S. 8033
 Amoah, F. M. 1838
 Amorim, S. M. C. de 9062
 Amorós, A. 2663
 Amos, N. D. 3807
 Amplatz, B. 4746, 7481
 Amrani Joutei, K. 310
 Amrhein, N. 1667, 3297-3299
 Amsing, J. G. M. 3339
 Amsler, P. 6557
 Amstel, A. N. M. van 7672
 Amundsen, I. 7845
 Amutha, S. 9776
 Amzile, J. 2152, 8524
 An, G. S. 10171
 An, K. B. 2218
 An, Q. L. 10171
 An, R. F. 119
 An GuangShi 10171
 An KwangBog 2218
 An QianLiang 10171
 Anagnostou, K. 246
 Anai, T. 1265
 Anamika Gulati 9848
 Anan, T. 7723
 Anand Kumar 7068
 Anandaraj, M. 749
 Ananthakrishnan, T. N. 2798
 Anantheswaran, R. C. 4269, 5146, 9630
 Anastassov, Ch. 8697
 Ancay, A. 4718
 Ancilotti, M. 6610
 Ancos, B. de 931, 9993
 Andalo, G. 9234
 Andani Gowda 8658
 Andary, C. 6060
 Andebrhan, T. 9017
 Andersen, A. K. 6030
 Andersen, A. S. 4406, 10611
 Andersen, B. R. 5030
 Andersen, G. I. 5918
 Andersen, H. 9356
 Andersen, L. 9788
 Andersen, P. C. 1143-1144, 1997-1998, 3866, 7254
 Anderson, C. R. 10549
 Anderson, D. F. 8662
 Anderson, J. A. 6000
 Anderson, J. L. 2702, 4817
 Anderson, J. M. 445, 5057, 6864, 6866-6867, 8608-8609
 Anderson, L. E. 4174
 Anderson, M. A. 4312, 7010
 Anderson, P. A. 3638, 5391, 7264, 10908
 Anderson, R. G. 6199
 Anderson, S. 10004
 Anderson, S. F. 5209, 8799
 Anderson, S. H. 787, 919
 Andersson, N. E. 725
 Ando, T. 607
 Andoh, T. 4366
 Andrada, L. 1375
 Andrade, E. R. de 2960, 8383
 Andrade, I. 7605
 Andrade, J. M. de B. 5383
 Andrade, L. R. M. de 7390
 Andralojc, P. J. 8595
 Andreev, V. Yu. 7760
 Andrei, R. 6643
 Andreo, C. S. 6055
 Andreou, M. T. 1451
 Andres, T. C. 7725
 Andrews, J. 2304, 2313
 Andrews, S. 3480
 Andrich, G. 7503, 10153
 Andriolo, J. L. 10414-10415
 Androcioli Filho, A. 10925
 Aneg Singh 4024
 Anelich, R. Y. 2425
 Anelli, G. 6776
 Aneshansley, D. J. 3806
 Añez, B. 5993
 Ang, W. 5316
 Angeli, G. 1096
 Angioni, A. 8956
 Angle, J. S. 5954
 Anikina, E. V. 2531
 Anil, B. K. 1782
 Anil Kumar 4600
 Anil Vyas 781, 3209, 3691, 5518-5519, 11017
 Anila Doshi 7174-7175, 10796
 Anim-Kwapong, G. J. 890
 Aniruddha Roychoudhury 5354
 Anisa, I. I. 7750
 Anisimov, A. I. 7649
 Anisimovienė, N. 3207
 Aniśko, T. 3469, 6195-6196, 9782
 Anit, E. A. 5803
 Anitha, N. 2674
 Anjali Sabale 4259
 Anjos, A. R. M. dos 9491
 Anju Dave 7989
 Anjum Perveen 8227
 Anke, H. 7852
 Annamalaiathan, K. 6524, 6743
 Añón, M. C. 3948
 Anoop Singh Sachan 8150
 Anouti, A. 10810
 Ansanelli, C. 5123
 Anselmo, V. 2940
 Ansermino, S. D. 3381
 Anshelevich, L. 2901
 Anstett, M. C. 3827
 Antari, A. 7251
 Anthony, J. 4706
 Antisari, L. V. 107, 2953
 Antlfinger, A. E. 7067
 Antognoni, F. 3316, 6827
 Antognozzi, E. 211, 220, 862, 6645, 10882

- Antoine, C. 8299
 Anton, I. A. 2255
 Antonacci, D. 311, 1224, 1257
 Antonaroli, R. 3823
 Antonelli, A. 236, 7446, 8415
 Antonelli, R. 3622
 Antoniaci, L. 7811
 Antoniazzi, M. 8438
 Antonin, P. 10298
 Antoniou, P. P. 1451, 3287
 Antonious, G. F. 1418
 Antonova, G. 10428-10429
 Antunes, L. E. C. 5705
 Antunes, M. D. C. 497
 Antwerpen, A. W. J. van 2819
 Anu, K. I. 8923
 Anuar, A. R. 3637
 Anuradha Agrawal 6059
 Anuradha Patnaik 9495
 Anusuya, D. 10560
 Anwander Phan-Huy, S. 6922
 Anwar, M. 5343, 8013
 Anwaruzzaman 8594
 Anzaldúa-Morales, A. 4848
 Anzueto, F. 5475
 Ao, Y. S. 4087
 Ao YanSong 4087
 Aoki, K. 3107, 5117
 Aoki, Y. 4842
 Aono, S. 6071, 6981
 Aota, H. 6961
 Aoyagi, M. 3002, 10541, 10931
 Aoyagi, Y. 3331
 Aoyama, Y. 4013
 Ap Rees, T. 4585
 Apanisile, R. 3648, 9936
 Aparicio, J. 8081, 10862
 Aparicio, R. 9913
 Apel, P. 3417
 Apelbaum, A. 8064
 Apety, J. 2696, 7301
 Aplada-Sarliis, P. G. 1987
 Apostol, R. F. 2287
 Appakkan Shajahan 4822
 Appanah, S. 10989
 Appell, T. P. 713
 Appert, C. 1667
 Appleton, B. L. 2466, 7946
 Appleton, M. R. 7030-7031
 Applewhite, P. B. 6028
 Apponyi-Garamvölgyi, I. 7808
 Aprin, N. 3340
 Apykhtin, G. V. 8430
 Arabova, L. I. 7756
 Aracena, J. J. 4895
 Arachchi, J. G. 10792
 Arafat, A. M. 9199
 Arai, T. 5916, 8315
 Araiza, E. 9974
 Araki, H. 2263, 3511
 Arathi, H. S. 7381
 Araújo, A. E. 9076
 Araújo, A. P. 8669
 Araújo, F. D. de 971
 Araújo, G. A. A. 5928-5929
 Araújo, J. A. C. de 506, 4966
 Arais, J. L. 9807
 Aravindakshan, M. 7288, 9945
 Araz, T. 3400
 Arbeláez, G. 2379-2380
 Arbizu, J. 7773
 Arboriculture Fruitière 3832-3833, 4811, 4826, 6611, 7454, 7554, 8244, 8324, 8327, 8329, 8346, 9282
 Arbu 9465
 Arbury, J. 10277
 Arca, B. 8957
 Arce, A. 9464
 Archambault, J. 6954
 Archer, C. 1004
 Ardito, S. 4912
 Arditti, J. 704
 Ardu Sattar 5101
 Arecas-Mallea, A. E. 10678
 Areddia, R. 4720
 Arena, M. E. 760
 Arenas, R. V. 10851
 Arenas de Moreno, L. 6426-6427
 Arenas Ocampo, M. L. 10888
 Arenfalk, O. 4095
 Arévalo G., M. de L. 9896
 Argent, G. 1629, 8868
 Argenta, L. C. 10154-10155
 Argenti, G. 3968
 Argerich, C. A. 5851
 Argo, W. R. 4307, 7876, 9663
 Arias, A. 5640
 Arias, F. J. 2709
 Arias, R. 6390
 Arias de López, M. 885
 Arias G., G. 7676
 Arias Montes, S. 5218
 Arias R., J. H. 10358
 Arienzo, M. 3940
 Ariffin, D. 9986
 Arijia, M. A. S. 9082
 Arima, S. 6033
 Arima, Y. 7429, 7865
 Arison, B. H. 5870
 Arisumi, K. 2409, 10652
 Arisumi, K. I. 4377
 Ariyawansa, P. 2746
 Ariyoshi, Y. 10812
 Arkhipov, A. 5001
 Arkhipov, N. 5001
 Armato, P. 4720
 Armitage, A. M. 6236, 7008, 9671, 9677
 Armon, R. 2111
 Armstrong, F. 1384
 Armstrong, J. 9730
 Armstrong, J. W. 932, 970
 Armstrong, P. R. 10165, 10264
 Armstrong, W. 9730
 Arnao, M. B. 6993
 Arndt, M. 522-523
 Arnold, M. A. 6235
 Arnold, N. P. 4402
 Aro, E. M. 5023, 10473
 Arola, L. 266
 Aronson, S. 1516
 Aroonrungsikul, C. 4156
 Arora, C. L. 10876
 Arora, D. K. 1437
 Arora, J. K. 6970
 Arora, N. 10427
 Arora, R. 6521
 Arora, S. K. 404, 6924, 7765, 7769, 9426
 Arpaia, M. L. 792, 799, 811, 6302-6303
 Arras, G. 6345, 7228-7229
 Arriaga, N. R. M. 5172
 Arrieta, V. 3475
 Arrigoni, E. 143
 Arrivo, A. 8987
 Arruda, A. E. 5488
 Arruda, R. C. O. 9051
 Arslan, N. 756, 6962
 Arteca, R. N. 8173
 Artelt, B. 9543
 Artés, F. 1915, 2661, 2663, 8081, 9301, 9467, 10862
 Artés Calero, F. 10047
 Arthur Yates & Co. Ltd 4985
 Artioli, C. 7639
 Artlip, T. 6521
 Arul, J. 4119
 Arulmozhiyan, R. 8933
 Arumugam, R. 1028, 1823, 9625
 Arumugam, T. 1856, 9713
 Arumughan, C. 2688
 Arun Prasad 8013
 Aruna, M. 2047
 Arunachala, A. S. 9135
 Arunima Roy 9084
 Arya, P. S. 5835
 Aryo, M. S. 464
 Arzeta-Gómez, J. M. 10596
 Arzone, A. 1153
 Asada, K. 6770, 9872
 Asahira, T. 8822
 Asai, I. 252
 Asakawa, S. 4325
 Asakawa, Y. 4513, 6335, 8851
 Asakura, Y. 10615
 Asamoah, T. E. O. 1838
 Asante, J. S. 5459
 Asao, T. 8663
 Asard, H. 5845
 Asari, S. 1424
 Asatryan, M. Ya. 5206
 Asawa, K. 2356, 3368
 Asayama, T. 3159
 Ascard, J. 3314
 Asero, C. 516
 Ashenden, T. W. 5570
 Ashfaq Ahmad 9740
 Ashfaul Islam 10438
 Ashida, K. 7158, 7162, 8026
 Ashida, Y. 5309
 Ashihara, H. 2767, 5482, 7306-7308
 Ashihara, W. 4925, 7598
 Ashish Kalra 4954
 Ashok Aggarwal 10943
 Ashok Krishna 4492, 6275
 Ashok Kumar 10663
 Ashraf, M. 10540
 Ashu Gulati 9098
 Ashurmetov, O. A. 3161
 Ashutosh Mandal 2670
 Ashwani Kumar 5494
 Ashworth, E. N. 5284, 8481
 Asiegbu, J. E. 3276
 Asirelli, A. 9297
 Asjes, C. J. 1567-1568
 Askerlund, P. 6795
 Askew, D. J. 4094
 Aslaksen, T. H. 4466
 Asoegwu, S. N. 1858
 Asoev, M. G. 4807
 Asokan, R. 10554
 Aspinall, D. 2096
 Aspuria, J. R. 9355
 Assaf, R. 3767, 6543
 Assaf, S. 2363
 Assaf, S. A. 2647
 Assal, A. T. 6325
 Asselin, C. 1231, 4001-4002
 Assemat, S. 6405
 Assenza, M. 8666
 Assimaki, H. 140
 Assmann, S. M. 2143, 6855, 8601
 Association Scientifique Internationale du Café 5540
 Assone, S. 8743
 Assy-Bah, B. 4570
 Astakhova, N. V. 5025
 Asthana, A. K. 8231
 Astill, M. S. 5391
 Aston, R. A. 5481
 Astorino, G. 3196
 Aswath, S. 3406
 Aswathreddy, K. P. 7291
 Atalla, I. S. 10083
 Atanassov, A. L. 2558
 Atasayar, A. 1466
 Atawia, A. A. R. 7213
 Atazhanov, R. 5307
 Aten, C. F. 4077
 Atherton, N. M. 420
 Atilla, A. 10332
 Atkhamova, S. K. 8894
 Atkin, O. K. 4162
 Atkins, S. 3456, 7972
 Atkinson, C. J. 96, 6631
 Atkinson, D. 203
 Atkinson, I. 2812
 Atrri, B. L. 8086
 Atta-Alla, H. 9749
 Atta-Aly, M. A. 6946, 6950
 Attla, M. F. 5732
 Atul Chandra 8087
 Atwell, B. J. 8589
 Atwood, J. T. 7062
 Atzorn, R. 5118
 Auclair, L. 4253
 Auclair, P. 8706
 Audemard, H. 3869, 8299
 Audergon, J. M. 10184-10185
 Auderset, G. 6548
 Audran, J. C. 5763, 7632-7633, 8791
 Audubert, A. 1129, 1988, 6594, 7456, 7516, 7551, 8174, 9255, 9261
 Auerswald, H. 6921
 Auger, J. 4027
 Augustus, G. D. P. S. 7947
 Auh, C. K. 6206
 Auh ChungKyoan 6206
 Aulagnier, M. 173
 Aular, J. 8106, 10889
 Ault, J. R. 1576, 4334
 Aumiller, A. 9362
 Aumont, C. 2002
 Aung, L. H. 5038, 7225
 Auriac, M. C. 6966
 Ausborn, D. 584
 Austin, M. E. 2047, 2050
 Australia, Australian Cultivar Registration Authority 7983
 Australia, Australian Daisy Study Group 9679-9680
 Australia, Australian Red Cross 7113
 Australia, Commonwealth Scientific and Industrial Research Organization 5778
 Australia, Department of Primary Industry and Fisheries, Northern Territory 8189
 Australia, Horticultural Research & Development Corporation 7401
 Australia, Institute for Horticultural Development, Victoria 5546
 Australia, New South Wales Agriculture 9639
 Australia, Queensland Department of Primary Industries 5717-5719, 6670
 Australia, West Australian Nut and Tree Crop Association 1001, 1876
 Autio, W. R. 82, 4743-4744, 4752, 7383
 Auxtová-Šamajová, O. 682, 5974
 Avanzato, D. 91, 6638
 Avdiushko, S. 5911
 Averill, R. 5568
 Averina, N. G. 5905, 6835
 Avermaete, U. 1010
 Aver'yanov, L. V. 3459
 Avidan, B. 234
 Avidan, N. 8102
 Avilán, L. 3562, 7347
 Avilán R., L. 7319
 Avilán R., L. A. 4622-4624
 Avilla, C. 2280
 Aviran, H. 2703
 Avtar Singh 8903
 Awad, A. E. 7886
 Awad, N. E. 9547
 Awal, A. 8024
 Awal, H. M. A. 1399
 Awamura, M. 8345, 9276
 Awang, M. 7375
 Awano, K. 10698
 Awasthi, M. D. 1705, 6001, 10355
 Awasthi, O. P. 10020
 Awasthi, R. P. 1178, 1957, 4772
 Awasthi, S. K. 1506
 Awghad, P. R. 337
 Ayabe, M. 5834
 Ayala, J. W. 3200
 Ayanoğlu, H. 9229
 Ayaz, F. A. 872
 Aydın, Ş. 170
 Ayed, N. 2661
 Ayele, N. 8197
 Ayer, H. 6789
 Ayerza, R. 10815
 Aymard, J. 8298
 Aynsley, J. S. 5414
 Aysha Kahn 5390
 Ayub, T. 8848
 Azab, S. A. 10858
 Azcón, R. 4074, 9461
 Azeem, S. W. 4631
 Azeemuddin, G. 5635, 6392
 Azeveto, P. V. de 11024
 Azgar Sheriff, P. 7985
 Azhar, I. 9018
 Aziz, I. 4199

- Aziz, M. A. 4652
 Aznar, M. 2619, 4705
 Azov, Y. 2111
 Azra Quraishi 597, 5413
 Azuma, H. 8851
 Azuma, J. I. 6804
 Azuma, T. 1596
 Azzari, A. S. 351, 3122
 Azzazy, M. A. 6425
 Ba, M. L. 5800
 Ba Wu Er Jiang 652
 Baán, G. 2847
 Baardseth, P. 5918
 Baars, J. J. 6064
 Baars, J. J. P. 3349, 3351, 4268
 Baas, P. H. 7513
 Baas, R. 3389, 3393
 Baba, K. 5294, 9799
 Baba, K. I. 5294
 Babadoost, M. 10448
 Babalad, H. B. 5994
 Babanski, S. N. 6796
 Babber, S. 10535
 Babenko, V. A. 3752
 Babic, M. 316
 Babik, J. 357, 9361
 Babiker, E. E. 918, 9970
 Babini, A. R. 6629
 Babodei, A. P. 7675
 Baboo, R. 5300
 Baboulène, F. 4821
 Baboy, L. 1471
 Babu, K. H. 1803
 Babu, K. N. 748
 Babu, T. S. 6027
 Baburaj, D. S. 5327
 Bača, J. 10309
 Baccanaud, M. 221, 4821
 Baccou, J. C. 9047
 Bach, E. E. 1804
 Bach, S. 5292
 Bachiri, Y. 6278
 Bachman, G. 8844
 Bachman, G. R. 1545, 4318
 Bachmann, M. 3115-3116, 5179, 8520, 10400
 Bacic, A. 7879
 Backhaus, G. F. 589, 6083, 7957
 Badamchian, B. 3122
 Badenes, M. L. 64
 Badia, D. 513
 Badiani, M. 2238
 Badillo, A. 1421
 Badiyala, S. D. 7180
 Badoni, S. 10202, 10262
 Badr, F. 10575
 Badr, S. A. 5749
 Badr, S. T. 10556
 Badri, M. A. 8027
 Badshah, N. 148
 Badvaik, N. G. 3154
 Bae, E. J. 3411
 Bae, G. W. 8001
 Bae, G. Y. 5093, 7795
 Bae, H. S. 10426
 Bae, R. N. 1115
 Bae EunJung 3411
 Bae GongYoung 5093, 7795
 Bae HyenSeok 10426
 Bae RoNa 1115
 Baek, I. Y. 2262
 Baek InYoul 2262
 Baerdemaeker, J. de 543, 6590, 6951, 9226, 9616, 10047, 10566
 Bævre, O. A. 1570, 4394-4395
 Báez, M. 9974
 Báez, R. 7338, 9974
 Bafor, M. 926
 Baggett, J. R. 1374, 1435
 Baghel, B. S. 7331
 Baghino, L. 7219
 Bagnall-Oakeley, H. 6442
 Bagni, N. 3316, 6827
 Bagnoud, N. 3553
 Bagrikova, N. A. 5757
 Bahadir, M. 2225, 7713
 Bahar, F. A. 5556
 Bahe, A. R. 3720
 Bahl, J. 6132
 Bai, C. H. 4531
 Bai, H. 3517
 Bai, J. 6274, 6958
 Bai, J. C. 77
 Bai, L. 7941
 Bai, S. F. 2550
 Bai, W. J. 5674
 Bai, Y. N. 10168
 Bai, Z. J. 8995
 Bai, Z. M. 6986
 Bai ChangHua 4531
 Bai JingChun 77
 Bai Juan 6274, 6958
 Bai Li 7941
 Bai SongFeng 2550
 Bai ZhenJie 8995
 Bai ZhiMing 6986
 Baidoo-Addo, K. 1838
 Baijnath, H. 5231, 9718
 Bailey, B. J. 1445
 Bailey, D. A. 583, 624, 4277, 5192, 6095, 9655-9656
 Bailey, D. G. 3899
 Bailey, G. J. 935
 Bailey, J. B. 8935
 Baille, A. 49, 8683, 8861
 Baille, M. 8861
 Bailod, M. 10298
 Baines, C. 1877
 Bains, S. S. 1757
 Bairamov, D. B. 9140
 Baird, R. E. 521
 Baird, V. M. 10456
 Baird, W. V. 6615
 Baiyeri, K. P. 1781, 1787
 Bajaj, Y. P. S. 8175
 Bajomi, D. 2847
 Bajwa, E. E. 1477
 Bajwa, M. N. 3678
 Bakalinsky, A. T. 6690
 Baker, C. 1611, 6176
 Baker, E. H. 4171
 Baker, J. R. 624, 1525, 2476, 4277
 Baker, M. 1611, 6176
 Baker, N. R. 424, 444
 Baker, R. A. 5402
 Baker, S. W. 7911
 Baker, W. 3440
 Baker, W. R. 6050
 Bakhariev, D. 3232
 Bakken, A. K. 1570, 5194
 Bakonyi, J. 3503
 Bakonyi, L. 8465, 10313
 Bakshi, A. I. 3149
 Baktir, İ. 10899
 Bakx, E. J. 2235, 6579
 Bal, J. 10102
 Bal, J. S. 967, 5494
 Bal, S. S. 9438
 Balabanova, M. 6869
 Balachandran, C. 2688
 Balaji, K. 782
 Balakrishna Reddy 9991
 Balakrishnan, K. 1028, 1823, 9625
 Balandier, P. 10216
 Balardin, C. R. R. 3884, 3979
 Balardin, R. S. 3884, 3979
 Balasimha, D. 6391
 Balasubrahmanyam, V. R. 6298
 Balasubramanian, A. 7138
 Balázs, K. 1958, 1960
 Balázs, S. 8731
 Balci, A. 9139
 Baldan, B. 4975
 Balder, H. 7948
 Baldet, P. 6872
 Baldi, A. 2105
 Baldoin, C. 8478
 Baldwin, E. A. 7227, 7830
 Baldy, C. 3963, 6722
 Balée, W. L. 10029
 Balestreri, E. 352
 Balibrea, M. E. 8689
 Balick, M. J. 8176
 Baligar, V. C. 1324, 5863, 6790, 7708
 Balík, J. 1293
 Balis, C. 3364, 3367
 Balkhoven-Baart, J. M. T. 7472, 10131, 10234
 Ball, R. D. 9224
 Balla, C. 9617
 Ballaré, C. L. 1273, 8581
 Ballester, J. F. 4905
 Ballif, J. L. 6697
 Ballington, J. R. 2048, 8409
 Ballio, A. 6766
 Ballo, K. 1837
 Ballore, S. 1730
 Baloch, H. B. 2628, 6902
 Balode, A. 641
 Balogh, I. 10329
 Balotin, C. A. 9491
 Balraj Singh 8604
 Bals, I. 10298
 Bals, N. 4924
 Balsamo, R. A. 2408
 Balsari, P. 1949
 Baltazar Bernal, O. 5162
 Balu, S. 5332, 6292, 7157, 9847
 Baluška, F. 4664
 Balwinder Singh 7997
 Balyan, D. S. 381, 3143, 7704
 Balzini, S. 7503, 10153
 Bambridge, L. 438
 Ban, Y. 3260, 3310, 8641
 Ban, Y. Q. 1133
 Ban YuQiu 1133
 Banafar, R. N. S. 7988, 9816, 9818, 10585, 11020
 Bananuka, J. A. 5458
 Bancroft, R. D. 10164
 Bandara, P. M. S. 7838
 Banday, F. A. 10151
 Bandurko, I. A. 5672
 Bandyopadhyay, A. 9085
 Bandyopadhyay, P. 3421
 Banek, S. A. 2140
 Banerjee, S. 3189, 7931
 Banerji, R. 1496, 1691
 Bang, C. S. 10637
 Bang ChangSeok 10637
 Banga, D. J. 8148
 Bangerth, F. 1396, 1985, 4894, 7636, 9219, 10152
 Banik, A. K. 8749
 Bank, H. van der 10680
 Bank, M. van der 10680
 Banko, T. J. 6192
 Banks, J. 2456
 Banks, N. H. 1053, 2918, 3807, 7513, 8312, 10276
 Bannister, P. 5290, 7079
 Bano, N. 8848
 Bañón, S. 5207
 Bañón Arias, S. 4336
 Bansal, A. 3452
 Bañuls, J. 1724
 Banville, S. 6955
 Banzatto, D. A. 8147
 Banzi, F. M. 9952
 Bänziger, H. 8841
/>
 Bao, M. Z. 5634
 Bao, X. Z. 1228
 Bao, Y. L. 3906
 Bao, Z. P. 7735
 Bao ManZhu 5634
 Bao YuLin 3906
 Bao ZiPing 7735
 Bapat, V. A. 3646
 Bapodara, C. 6853
 Bär, D. 4343-4344
 Bar, Y. 8064
 Bar-Joseph, M. 3592
 Bar-Tal, A. 1448, 9589
 Bar-Yosef, B. 3281
 Bar-Zvi, D. 2314
 Barabash, I. D. 4816
 Barabé, D. 72, 2401, 2440
 Barahona, C. 9641
 Barak, P. 7574
 Baraldi, R. 1160
 Baran, E. J. 9737
 Barani, A. 279
 Baranov, S. V. 5970
 Baranowski, R. M. 1271
 Baranski, R. 550
 Bararaj, D. J. 9991
 Barba, A. 599, 1154
 Barbara, D. J. 6270
 Barbato, R. 4489, 7193
 Barbe, C. 9884
 Barbeau, G. 4569
 Barbedo, A. S. C. 2220
 Barbedo, C. J. 2220
 Barben, E. 4767
 Barber, J. 446, 5968
 Barbera, G. 4723, 10903
 Barbieri, G. 2285-2286, 3077
 Barbieux, D. 8288
 Barbora, B. C. 11011
 Barbosa, M. H. P. 8750
 Barceló, A. R. 3993
 Barceló-Muñoz, A. 2581
 Bárcenas, P. 11023
 Barczi, J. F. 533
 Barden, J. A. 4744, 4749
 Bardet, M. C. 7831, 7855
 Bardisi, A. 503
 Bareil, M. 892
 Bareš, J. 5741
 Baret, F. 4243
 Barham, J. M. 3409
 Barholia, A. K. 8113
 Bariac, T. 273
 Baričević, D. 5328, 5843
 Barka, E. A. 5763, 7632-7633
 Barkai-Golan, R. 5738
 Barkat Awan 10772
 Barker, A. V. 2424, 5210-5211
 Barker, D. H. 708
 Barker, E. R. 6013
 Barker, P. A. 6183, 9810
 Barkla, B. J. 4365
 Barlianto, H. 2156
 Barlow, C. 6439
 Barlow, E. W. R. 2126-2127, 6625
 Barlow, P. W. 4664
 Barman, D. 4297, 8749
 Barna, J. 3029
 Barnard, R. O. 798
 Barnerjee, S. K. 9850
 Barnes, B. N. 1093, 2902
 Barnes, H. W. 2490
 Barnes, M. M. 9167, 9330
 Barnes, P. W. 8581
 Barnett, J. R. 5904
 Barnett, S. 1878
 Barnett, W. W. 9167, 9191, 9273, 9293, 9323, 9330, 9395
 Barnfield, D. 6311
 Barnfield, W. M. 6311
 Barni, V. 2130, 4026, 6746, 10370
 Baroffio, C. 1923
 Baron, A. 135
 Barone, E. 3900, 5425, 6637
 Barone, F. 2665
 Baroni, G. 3842-3843
 Barooah, A. K. 1852, 10536, 11013
 Barradas, C. I. N. 1819
 Barradas, C. M. F. 8054
 Barranco, D. 2649, 6357-6358, 8103
 Barratt, N. M. 10504
 Barreca, A. 3242
 Barreda, D. G. de 1721
 Barreiro, G. M. 1514
 Barreiro, M. G. 187, 193
 Barreiro, P. 153
 Barreiro Elorza, P. 7531
 Barrera, J. 2331
 Barrera, M. J. 8104
 Barrera-Arellano, D. 8110
 Barrett, D. 1374
 Barrett, D. M. 9968, 10043
 Barrett, J. E. 4328, 4410, 5266, 6094, 9006, 9746, 9779
 Barria P., G. 2846, 6516
 Barriga G., J. A. 1195
 Barringer, S. A. 3717, 5246, 6497, 7256
 Barrington, F. V. 705
 Barrios, L. 10929
 Barritt, B. H. 80, 6542
 Barrón, A. 757
 Barros, F. de 2446
 Barros, M. J. 8535

- Barros, R. S. 4605, 6398
 Barroso, C. G. 9376
 Barroso, J. G. 1559
 Barry, G. H. 5362, 5392
 Bärtele, A. 10040
 Bartetzko, M. N. 737, 741, 8869-8870
 Barth, G. E. 737, 741, 8869-8870
 Barth, M. M. 2201, 4121, 4876
 Barthakur, N. N. 422, 4402
 Barthélémy, D. 5689, 5692-5693
 Barthlott, W. 378, 7037, 8886, 9736
 Bartholemew, M. 7821
 Barthou, H. 4317
 Bartish, I. V. 10230
 Bartley, M. R. 1720
 Bartnikowska, E. 871
 Bartoli, C. G. 7864
 Bartolini, G. 2643, 2646, 6687
 Bartolini, S. 5430, 9245, 9247
 Bartolomei, S. 8790
 Bartolozzi, F. 6360, 9234
 Bartolucci, R. 9388
 Barton, D. 6080
 Barton, D. L. 4115
 Barton, P. A. 7010
 Barton, S. 6263
 Bartosiewicz, B. 8249
 Bartraeau, T. 1607
 Bartz, J. A. 1434
 Baruah, G. K. S. 6887, 6924, 10520
 Baruah, K. 933, 9012
 Baruah, S. N. 10375
 Barut, E. 8387
 Baruzzi, G. 2055, 3933
 Barwal, R. N. 6431
 Basak, M. K. 10600
 Basallote, M. J. 3084
 Basanti Biswal 9495
 Başar, H. 751, 3865
 Basavanneppa, M. A. 5994
 Basbaa, A. K. 6223
 Basden, N. 7092
 Basedow, T. 1315
 Başer, K. H. C. 8018, 8183, 10048-10050
 Bash, W. D. 1428
 Bashar, M. A. 4607
 Basiglio, P. 1994
 Basile, G. 3940
 Basile, M. 1291
 Basilious, S. I. 3092
 Basiouny, F. M. 239, 272, 4877
 Basler, P. 259
 Basra, A. S. 4658, 10626
 Basri, M. W. 7342
 Bassi, D. 5651, 9234
 Bassi, G. 9178
 Bassi, L. 83
 Basso, M. 9378
 Basso-Figuera, C. 5503-5504
 Bastos, J. K. 9708
 Bastos, R. K. X. 4989
 Bastow, W. J. 2418
 Basu, P. S. 3189, 5985, 10801
 Basu, S. 2143, 4054
 Basuchaudhuri, P. 10947
 Baswana, K. S. 440, 7668
 Baszyński, T. 2232
 Batagurki, S. 1976
 Batal, K. M. D. 1409
 Batashev, D. R. 9676
 Batchelor, M. A. 917
 Bates, M. E. 5568
 Bates, R. M. 6210
 Bates, T. E. 2161
 Batis, A. I. 10063
 Batisse, C. 7520
 Batista, A. R. 7832
 Batista, O. 6809
 Batra, A. 7989
 Batra, M. S. 7268
 Batta, L. G. G. 4687
 Battaglia, D. 1152, 2899
 Batten, D. 4541
 Batten, D. J. 857
 Batten, J. H. 371
 Battey, N. 8596
 Battey, N. H. 6677
 Battistelli, A. 6645
 Batts, G. R. 1262, 9425
 Batu, A. 7829
 Batygina, T. B. 4313
 Bauchot, A. D. 145, 3804, 4800, 5629
 Baudner, S. 4474
 Baudoin, L. 1799
 Baudoin, W. 5800
 Baudry, O. 7537, 8299
 Bauer, H. 9154
 Baughan, R. 5114
 Baugher, T. A. 4770
 Baum, B. R. 3703
 Baum, G. 3400
 Baumann, H. 9207
 Baumann, T. E. 2052
 Baumann, T. W. 902, 4603, 8025, 9035
 Baumer, M. 8177
 Baumes, R. L. 6363
 Baur, B. 6871
 Baur, P. 9154
 Bautista, D. 8447, 10889
 Bautista-Baños, S. 10273
 Bavaresco, L. 1252, 3976, 5752, 6705
 Bawanthade, T. L. 337
 Bawazir, A. A. 9550
 Baxter, A. J. 10766
 Baxter, L. W. 1620
 Bay, A. P. M. 5930, 5949
 Bayındır, L. 136, 159, 3610, 5625
 Bayonove, C. L. 6363
 Bayounis, A. A. 9550
 Bayram, E. 1675, 10776
 Beal, P. 8879
 Beal, P. R. 9808
 Beale, C. R. 998
 Beall, B. 5278, 5288
 Beall, B. W. 5160
 Beall, F. D. 9528
 Beall, F. P. 5160
 Bearce, B. C. 6197
 Beardsell, D. 7126
 Beattie, B. 5529
 Beattie, D. J. 6121
 Beattie, G. A. C. 2608, 6318, 8071
 Beaudry, R. M. 1053, 7501, 10264, 10284
 Beaujard, F. 10720
 Becerra, R. 10063
 Becerra Bernal, E. 2781
 Becerra, J. A. 3026
 Becerril Román, A. E. 9881, 10826-10828, 10944
 Becher, R. 8448
 Beck, F. 5241
 Becker, A. 1527
 Becker, H. 8766-8767
 Becker, R. 2309
 Becker, R. L. 7009, 7877
 Beckett, K. A. 618
 Beckett, L. M. 592
 Beckett, P. M. 9730
 Beddoe, T. W. 9972
 Bedford, I. D. 5006
 Bednara, J. 2232
 Bednarska, E. 2388
 Bednarz, F. 5812, 10378
 Beebe, D. U. 8779, 9967
 Beech, I. 425
 Beede, R. 3901
 Beede, R. H. 2035
 Beelman, R. B. 2349, 3344-3345, 4269, 5146, 9630-9631
 Beena Bhaskar 1794, 6385
 Beentje, H. 10035
 Becor-Tzahar, T. 834
 Beer, J. 8139
 Beer, R. 10052
 Beeson, R. C., Jr. 4428, 5295
 Beaver, R. E. 10682
 Beevers, L. 9542
 Beevi, S. P. 9014
 Begat, S. 1287
 Begum, R. 9580
 Beharav, A. 1812
 Behboudian, M. H. 3294, 5605, 5676, 10114
 Behe, B. 6991
 Behe, B. K. 592, 8759
 Behera, B. 8199
 Behera, B. C. 3323
 Behera, P. K. 3323
 Behera, T. K. 7334, 8560
 Bein, A. 2485
 Beintema, J. J. 949, 1913, 2750
 Beja-Tal, S. 3385
 Bejarano, J. 3084
 Bejar, S. 10884
 Bekaert, P. 3053
 Bekey, R. S. 8935
 Bel, A. J. E. van 9153
 Bélair, G. 1483, 8679
 Belakbir, A. 323-324, 8568-8569, 8638, 9039, 9043
 Belal, F. 528
 Bélanger, R. R. 1360
 Belcari, A. 3622
 Belda, R. M. 5103
 Belfaiza, M. 7824
 Belforte, G. 6882
 Belgium, Comité voor Onderzoek op Groentegewassen, Sectie I 1884
 Belgium, Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 5547
 Belgium, Proefstation Rillaar 5726
 Belgium, Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 1015-1017, 1885-1887, 5548
 Belgium, Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw Beitem-Rumbeke 5844
 Belgium, Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 7402
 Belgium, Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw 8190, 9127
 Belgium, Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 10055
 Belgium, Westvlaamse Proeftuin voor Industriële Groenten, Beitem-Roselare 1888
 Bell, C. E. 9510
 Bell, C. R. 6707
 Bell, D. T. 594
 Bell, G. E. 5214, 7908
 Bell, J. N. B. 5862
 Bell, M. 1540
 Bell, R. L. 6628
 Bellardi, M. G. 585
 Bellés, M. 4007
 Bellesia, F. 10603
 Belletti, P. 9557
 Bellett-Travers, D. M. 8867
 Belletti, P. 468
 Bellincampi, D. 5947
 Bellini, E. 3841
 Bellis, L. de 5914, 6833
 Bellomo, F. 8987
 Bellon, V. 10225, 10259
 Bellon Maurel, V. 7531
 Bellouch, H. 10823
 Belluau, E. 6617
 Belmans, K. 1993
 Belokhovostova, V. N. 9439
 Belorkar, P. V. 2381-2382, 3154, 3390
 Beltagy, A. S. 7681
 Belynskaya, E. V. 1674, 5314, 8771
 Ben, J. 2919, 2921
 Ben-Arie, R. 184, 1765, 4832, 6724, 9919
 Ben-Cheikh, W. 8963
 Ben-Chekroun, M. 2152, 8524
 Ben-Hayyim, G. 834
 Ben-Ismaïl, M. C. 6343
 Ben Miled Daoud, D. 10887
 Ben-Moshe, E. 5952
 Ben Rouina, B. 8099
 Ben Salah, M. 6610
 Ben-Tal, Y. 2701
 Ben-Ya'acov, A. 790-791, 4475
 Ben-Yehoshua, S. 846, 1422, 2838, 5496, 7781
 Ben-Yephet, Y. 6088
 Benady, M. 4898
 Benard, D. 3311
 Benavides, A. 7676
 Bencivenga, M. 6077
 Bendada, M. 4801
 Bendaravicius, B. 6734
 Bendel, R. B. 1934
 Bender, G. S. 792
 Bender, R. J. 5497
 Bene, G. del 736, 1658, 7420
 Benedek, P. 8236-8237, 9198, 9254
 Benedetto, A. di 6124
 Benedetto, A. H. di 6200
 Benedicty-Rátz, M. 7493
 Benega, R. 7346
 Benfatto, D. 1728
 Benhamou, N. 7812, 10501
 Benharbit El-Alami, N. 3988
 Beni, C. 5588, 5645, 6525, 6535
 Benichou, M. 6838
 Benincasa, F. 8957
 Benítez, C. 10513
 Beniwal, S. P. S. 430
 Benjama, A. 859
 Benjamin, L. R. 1259
 Benjamin, M. T. 8842
 Beniloch, M. 4548
 Bennett, A. B. 2310, 5489
 Bennett, M. A. 8661
 Bennett, R. N. 9498
 Bennett, T. B. 4340
 Bennici, A. 9828
 Benoit, D. L. 6955, 7834
 Benoit, F. 4990, 6923, 8566
 Benseler, J. C. 998
 Benson, A. A. 4509
 Benson, D. M. 719, 6990
 Bent, E. 114, 1967
 Bentley, W. J. 9167, 9273, 9293, 9395, 9510
 Benton, C. M. 4908
 Benton, J. 5561
 Bentrup, F. W. 5248
 Bentz, S. E. 743
 Benveniste, I. 8522
 Benvenuti, S. 5317
 Bényei, F. 10109, 10324-10325
 Benzioni, A. 4468
 Berard, R. 1956, 2885
 Berber-Jiménez, M. D. 3930, 9823
 Berbezy, P. 7634
 Berbin, C. 10421
 Berényi, B. 8649
 Beresniewicz, M. M. 1260
 Beretta, M. J. G. 1804
 Berg, C. G. J. van den 4115
 Berg, G. L. von 8512
 Berg, M. A. van den 8091
 Berg, W. van den 5061, 5823
 Bergamaschi, H. 5044
 Bergamaschi, M. 3932, 4883
 Bergamini, A. 83
 Berger, A. 6616
 Berger, F. 10067
 Bergeron, E. 1298
 Bergervoet, J. H. W. 3257, 8653
 Bergé, D. R. 4241
 Berggren-Barring, A. M. 10052
 Berghage, R. D. 9653
 Berghé, C. vanden 27
 Bergher, M. 8611
 Bergmann, B. A. 4421
 Bergmann, E. 2225

- Bergmann, E. C. 8955
 Bergmann, H. 4992
 Bergström, G. 10606
 Berhow, M. A. 3602
 Beriam, L. O. S. 3402
 Berjak, P. 1393, 10778
 Berkowitz, G. A. 3112
 Berlanga, M. 3873
 Berlioz, G. 3958, 6696
 Bermadinger-Stabentheiner, E. 1571
 Bermejillo, A. 4223
 Bernabé-González, T. 10596
 Bernadac, A. 6928
 Bernal, M. A. 1419
 Bernal Gambín, L. J. 1537
 Bernalte García, M. J. 6883-6884
 Bernardi, J. 4783
 Bernardo, A. L. 4639
 Bernardoni, C. 4075
 Bernasconi, P. 5909
 Bernát, G. 5969
 Berney, G. 4706
 Bernhard, R. 1177
 Bernier, P. Y. 6232
 Bernstein, I. 10052
 Bernstein, N. 7688
 Berović, M. 3371
 Berrie, A. 113
 Berry, A. W. 5573-5574, 5976
 Berry, S. Z. 1428
 Berta, G. 203, 8382
 Bertamini, M. 3038, 3991, 7603
 Bertazza, G. 1160
 Bertelsen, M. 2842, 5593
 Berthouly, M. 30, 6400, 7309, 9026, 10916
 Bertil-Filho, E. 1619
 Bertin, N. 533
 Bertini, A. 9307
 Bertling, I. 6308
 Bertola, N. 3949
 Bertoldi, M. 5317
 Bertoli, M. 3255, 3263
 Bertolini, J. M. 8684
 Bertolini, P. 1126, 1989, 2799, 7524
 Bertolotto, C. 6251
 Berton, O. 8255
 Bertonzzi, C. 3820
 Bertoni, G. 1240, 6928
 Bertoni, P. 8971
 Berstrand, P. F. 2961
 Bertschinger, L. 5591, 8304
 Berüter, J. 1111
 Besford, R. 5644
 Besford, R. T. 1462, 8333, 10411
 Bessa Junior, A. de A. 7958
 Besselat, B. 6717
 Bessemoulin, P. 9386
 Besset, J. 4829, 6613
 Bessière, J. M. 6060, 8034
 Bessler, B. 683, 1555, 3412
 Besson, V. 3119
 Bessoule, J. J. 4029, 5795
 Best, S. 10323
 Bester, M. T. 5362
 Bethell, R. S. 9191
 Bethke, J. 4396
 Betrand, B. 5475
 Betsche, T. 2251, 5965
 Beveridge, T. H. 5633
 Beverly, R. B. 5089, 6807, 7423
 Bevilacqua, D. 4265
 Bevington, K. B. 828
 Bevione, D. 4921
 Bewick, T. A. 1308, 3261
 Bewley, J. D. 1049
 Beyer, D. M. 2349
 Beyer, P. 4329
 Beyhan, Ö. 10260
 Beyl, C. A. 9810
 Beyrle, H. F. 2449
 Beyts, P. K. 7512
 Bezdenezhnykh, V. A. 7424
 Bezler, N. V. 8051
 Beznea, D. 4915
 Bezuidenhout, J. J. 807, 812, 4487
 Bhadauria, J. S. 6750
 Bhaduri, S. K. 10600
 Bhag Mal 7182
 Bhagabati, K. N. 5991
 Bhagwandin, O. 10195
 Bhagwati Charan 623
 Bhai, R. S. 753
 Bhalerao, B. P. 9971
 Bhalla, J. S. 5071
 Bhalla, P. L. 4581
 Bhan, M. K. 2545
 Bhan, V. M. 10388
 Bhandari, A. R. 104, 156, 1950
 Bhandari, J. 8007
 Bhandwalkar, S. M. 10965
 Bhanja, P. K. 9086
 Bharat, N. K. 5616
 Bharat Rai 1506
 Bharati, N. 10592
 Bharati, P. 10592
 Bharati Varma 9532
 Bhardwaj, C. L. 10455
 Bhardwaj, L. 1768
 Bhardwaj, M. L. 6909
 Bhardwaj, R. K. 489, 5084
 Bhardwaj, S. K. 1950, 9186, 11007
 Bhardwaj, S. V. 5558
 Bharel, S. 9848
 Bhargava, B. S. 1836, 7619, 9392-9393
 Bhargava, G. P. 10747, 10751
 Bhaskar, B. 1794, 6385
 Bhaskar Goswami 6383
 Bhaskarachary, K. 1916
 Bhat, K. K. S. 7984, 8183
 Bhat, K. L. 8559
 Bhat, N. S. 1337
 Bhat, S. S. 9031
 Bhat, V. R. 7617
 Bhati, D. S. 6262, 10757
 Bhatia, A. K. 9440
 Bhatia, D. S. 2413, 10626
 Bhatnagar, A. 9565
 Bhatnagar, D. K. 5036
 Bhatnagar, S. P. 6811
 Bhatt, J. P. 1142
 Bhatt, R. 5345
 Bhattacharjee, S. 557
 Bhattacharjee, S. K. 1635, 7960, 8862, 8864, 10032
 Bhattacharya, A. K. 9834
 Bhattacharya, B. 7161, 8551, 8692
 Bhattacharya, M. K. 11005
 Bhattacharya, S. 3467, 5279, 7930
 Bhattacharyya, R. K. 7205, 8057
 Bhattacharyya, R. N. 5985
 Bhattacharyya, S. 10712
 Bhattacharyya, T. K. 10783
 Bhattacharya, S. P. 5813, 6338, 9437
 Bhattacharya, M. A. 161
 Bhauser, K. N. 8917
 Bhautkar, M. Y. 3017, 3139, 3382
 Bhojappa, K. M. 3545
 Bhonde, S. R. 4042, 6750
 Bhujbal, B. G. 3493
 Bhumbra, V. K. 4252
 Bhupinder Singh 2243
 Bhutani, V. P. 1074
 Bhuyan, C. K. 8048
 Bhuyan, M. A. J. 10954
 Bi, D. Y. 6900
 Bi, G. H. 8302
 Bi, P. 7371
 Bi, S. 5324
 Bi, X. M. 11014
 Bi, Y. F. 2419
 Bi DeYi 6900
 Bi GuiHong 8302
 Bi Ping 7371
 Bi XiouMin 11014
 Bi YuFen 2419
 Biacs, P. A. 10531
 Biagi, P. P. 5914
 Biagioni, M. 421
 Bialczyk, J. 3302, 8690
 Bian, Q. J. 6351
 Bian, X. Y. 1103
 Bian QiJun 6351
 Bian XueYu 1103
 Bianchetti, R. 5032
 Bianchi, A. 5317, 10603
 Bianchi, M. 5859
 Bianchi, M. L. 3999
 Bianco, V. V. 1375
 Biasi, R. 219-220
 Bibbiani, C. 4679
 Bica, D. 271
 Bichta, H. 2194
 Bickel, D. G. 7038
 Biddappa, C. C. 9023
 Biddinger, D. J. 1092
 Biehl, B. 1796, 7285-7286
 Biel, C. 2277, 3237
 Bielenin, A. 8402
 Bieleski, R. L. 4304
 Bielicki, P. 8249
 Biemond, H. 1282, 1295, 1331, 7663, 7707, 8498, 10441
 Bierlen, R. 1478
 Biernmann, W. 3700
 Biernbaum, J. A. 4307, 7876, 9663
 Biesheuvel, A. R. 4982
 Biesiada, A. 9460
 Biever, K. D. 1336
 Bifaretti, A. E. 6487
 Biggs, A. R. 2920, 4770
 Biggs, M. P. 8854
 Bigirumwani, P. 5478
 Bignami, C. 2641, 3825, 3841, 3856
 Bigus, H. J. 5047
 Bijarnia, H. S. 10436, 10446
 Bijur, S. V. 5460
 Bijzet, Z. 788, 3563
 Bilanski, W. K. 1382
 Bilay, V. 8727
 Bilay, V. T. 3355, 3370
 Bilderback, T. E. 4399
 Bilgener, S. K. 2945
 Bilhalva, A. B. 10285
 Bilici, A. 9237
 Bilici, M. 9237
 Bilisics, L. 5974
 Billard, J. P. 6249, 6268
 Bille, S. W. 10362
 Billen, B. 10052
 Billiet, F. 3455
 Bindli, M. 7609
 Bing Shi 492
 Binggeli, C. 4714
 Binns, M. R. 4402
 Bino, R. J. 2288, 3257, 4206, 6008, 8652-8653, 9557
 Bintoro Djoefrie, H. M. H. 977
 Binzel, M. L. 534, 4238, 6898
 Biología 10046
 Biondi, P. 5559, 6034, 6498
 Bir, R. E. 2490, 7955
 Birbal 2268
 Birch, A. N. E. 391, 7567
 Bird, C. 10735
 Bird, G. W. 995, 3819, 7599
 Birger, R. 4549
 Biricolti, S. 177, 8971
 Birrell, F. 9313
 Bischoff, J. 7474
 Bisen, A. L. 8113
 Bisen, C. S. 2272
 Bisen, R. K. 2272
 Bisen, S. S. 8910
 Bishnoi, S. R. 7997
 Bishop, B. L. 4745
 Bishop, J. D. 1271
 Bisht, G. S. 5298
 Bisignano, V. 1229
 Bis'ko, N. A. 3355, 3370, 5148
 Bišof, R. 10316
 Bisson, J. 6685
 Biswajit Bhattacharya 8551, 8692
 Biswal, B. 9495
 Biswal, U. C. 9495
 Biswas, B. 8089
 Biswas, S. 615
 Biswas, S. C. 8910
 Biswas, S. R. 9866
 Bitoga, J. P. 1801
 Bitonti, M. B. 559, 8101
 Bittencourt, M. V. L. 3516
 Bittner, V. 3415
 Bityutskii, N. P. 4139
 Björkman, O. 3201, 4079
 Björn, G. K. 3133-3134, 5856
 Black, B. L. 3798
 Black, C. R. 10039
 Black, L. L. 4249
 Black, M. 8654
 Black, M. C. 2147
 Blackman, J. D. 9841
 Blackman, L. M. 5980
 Bladenopoulou, S. B. 5654
 Blahous, D. 2079
 Blahovec, J. 5741
 Blake, J. 7263
 Blake, T. 9800
 Blakeney, A. B. 2126
 Blakenship, S. M. 4805
 Blanc, A. 6478
 Blanc, M. 6711
 Blanchard, P. 10312
 Blanchet, P. 1931, 9334, 10304
 Blanco, A. 3659, 5360
 Blanco, A. S. 6300
 Blanco, J. 8680
 Blanco, M. 7210, 7214, 8074
 Blanco, M. A. 3084
 Blanco-Montero, C. A. 1583, 4340
 Bland, W. L. 8416
 Blandini, G. 6337, 6526
 Blank, R. H. 3909, 7560
 Blank, S. C. 822
 Blanke, M. 75, 3450, 6308, 7582
 Blanke, M. M. 4707, 9306
 Blankenship, S. M. 4240
 Blaser, C. 6557
 Blasi, N. di 10405
 Blatt, M. R. 1384, 4168-4169
 Blattes, A. 1798
 Blažič, M. 10209
 Blazich, F. A. 2501-2502
 Blazquez, C. H. 6320
 Blehová, A. 682, 5236, 5338
 Bleicher, E. 7484
 Bleicher, J. 4783
 Bleiholder, H. 2094, 4015-4016
 Blenda, V. F. 2932
 Blervacq, A. S. 360, 4980
 Bletsos, F. 498
 Blevins, D. G. 6664
 Bleyaert, P. 5548
 Bloch, L. 8842
 Block, E. 2358
 Block, M. A. 2150
 Block, R. 3769, 4757
 Block, T. 8294
 Bloemhard, C. M. J. 3498
 Bloksberg, L. N. 4248
 Blom, C. W. P. M. 2312
 Blom-Barnhoorn, G. J. 1567
 Blum, J. 4231
 Blümel, S. 7963
 Blumenthal, C. 8936
 Blumwald, E. 4365
 Blythe, G. 2477
 Bó, M. A. dal 6651
 Boales, A. K. 321, 9483
 Board, R. G. 5470
 Boaretto, A. E. 914, 8147
 Bobák, M. 682, 5236, 5338
 Bobák, L. 2125, 6756
 Boccia, L. 5569, 5571
 Boccon-Gibod, J. 7015
 Bochinuso, R. 8712
 Bock, C. 6729
 Bock, M. A. 6369
 Boco, M. 211
 Boddy, L. 1878
 Bødker, L. 7758
 Boege, S. C. 2536
 Boeckstein, A. 396, 3350
 Boerrigter, H. 10149
 Boersma, K. 4780
 Boertjes, B. C. 10128
 Boesveld, H. 1078

- Boetsch, J. 9748
 Boeufgras, J. M. 4220
 Boeva, N. P. 1355
 Boff, P. 8509
 Bogdanowicz, N. 7458
 Boglio, P. 2101, 2104
 Bogner, J. 678
 Bogoni, M. 3041, 3043, 3054
 Bohec, J. le 6474
 Bohling, H. 9121, 9300
 Böhm, H. 9739
 Bohm, V. F. 9296
 Böhme, M. 3172
 Bohs, L. 3634
 Bohsung, J. 5141
 Bohus, G. 9628
 Boichinova, M. 6845
 Bois, P. 6620
 Boisvert, A. 4690
 Boiteux, L. S. 3245, 7787
 Boivin, G. 1483
 Bojappa, K. M. 7202
 Bojesen, G. 7024
 Bojorquez, G. 1832
 Bokern, M. 6729
 Bokonon-Ganta, A. H. 1829
 Bolan, N. S. 380
 Boland, A. M. 5660
 Boland, D. 10054
 Boland, W. 10581
 Bolarin, M. C. 6007, 8689, 10561
 Bolat, İ. 9238, 9241
 Bolay, A. 3980, 4722
 Bolck, A. 4359
 Boller, E. 10341
 Bolton, J. J. 1699
 Bolwell, G. P. 425-426, 2239, 4161
 Boma, F. 5466
 Bombarda, I. 742
 Bombardelli, E. 3028
 Bomme, U. 5334, 8929
 Bon, H. de 5802
 Bona, H. 563, 1499
 Bonanno, A. R. 7702
 Bonavia, M. 287
 Bond, J. 8883
 Bond, W. 6751
 Bond, W. J. 9809
 Bondar', P. F. 4937
 Bondari, K. 2050
 Bonde, M. R. 603
 Bondioli, P. 9109
 Bondok, A. 3849, 3857
 Bondok, A. Z. 9547
 Boneta, E. 1715
 Bonetti, A. 1372
 Bonghi, C. 3877, 9299
 Bong, G. 4551
 Bonhomme, M. 10216
 Bonito, R. di 4692
 Bonnemain, J. L. 2511
 Bonner, C. A. 3418
 Bonnet, A. 1481
 Bononi, V. L. 3332
 Bonser, A. M. 5938
 Bontsema, J. 2167, 2819
 Booiij, R. 1491, 8498, 10439-10440, 10451
 Boom, T. van den 4015-4016
 Boon, E. J. M. C. 9153
 Boon, J. J. 5455
 Boonen, P. 10107
 Boonsermsuk, S. 982
 Boonyasompop, S. 3839
 Boosfeld, J. 3662
 Bootsma, J. 1069, 1107, 1164, 4766, 6549, 10132
 Bootsma, J. H. 4731, 4758
 Bopaiah, M. G. 9023
 Bora, G. C. 10375
 Bora, K. N. 11005
 Bora, P. 10066
 Borah, P. 1664
 Borah, R. K. 2271, 3229, 6890
 Borah, S. K. 9996
 Bordács, M. M. 9250
 Bordelon, B. 4898
 Bordelon, B. P. 3925, 8481
 Bore, J. K. A. 6452
 Borejsza-Wysocki, W. 6657
 Borg-Karlson, A. K. 6216
 Borghi, T. 3863
 Borgo, M. 4922
 Borgtoft Pedersen, H. 7151
 Borie B., F. 10548
 Borin, M. 4993, 8531
 Borin, M. R. de M. B. 4451
 Borio, D. 6814
 Borisova, I. V. 8030
 Bork, W. R. 2572
 Borkar, S. G. 10383
 Borkhsenious, O. 5048
 Borkovec, V. 5919
 Borkowska, B. 7443
 Borkowski, J. 8672, 8674
 Borm, G. E. L. 8813
 Bormuth, C. D. 1386-1387
 Born, G. C. C. 8826
 Bornemisza, E. 8221
 Borochov, A. 2397, 3385, 3501, 4288, 6179, 7063, 9675, 10624, 10713
 Borodin, I. F. 9157
 Boronat, A. 5644
 Borošić, J. 318
 Borowski, E. 2163, 2173-2174, 2303, 4995-4996, 5099, 9587
 Borroto, C. G. 7046, 7210, 7212, 7214, 8074
 Borsboom, O. 9309
 Borscak, J. D. 10267
 Borsch, T. 7037
 Borserio, E. 8296
 Borst, W. M. 457, 5988, 10515
 Borthakur, A. 6383
 Borthakur, M. C. 1852
 Bortolin, C. 9390
 Borude, S. G. 6373
 Borys, M. T. 5227
 Borys, M. W. 5178, 5208, 5227, 5237
 Bos, H. J. 499
 Bosabalidis, A. M. 7125
 Bosch, D. 10728
 Boscher, J. 4027
 Boscheri, S. 1961
 Boschi, C. 6200
 Boschi, C. L. 4278
 Böse, G. 3185
 Bose, J. P. 8700
 Boselahn, N. A. E. 7139, 9855
 Boselli, M. 3033, 5765
 Boshoff, M. 3567, 4480, 4485
 Bosio, G. 1487
 Bosland, P. W. 8621
 Bošnjak, Đ. 1161
 Bosshard, E. 110
 Bosu, S. S. 7273
 Botar, S. 7484
 Botella, L. 10846
 Botha, J. H. 5613
 Botha, L. 10713
 Botondi, R. 231, 540, 6776, 8400
 Botrini, L. 5019
 Botta, B. 2570
 Botta, R. 208, 224, 300, 1138, 1218, 3959, 8446
 Böttcher, H. 134, 5787
 Botz, L. 9250
 Bouard, J. 260, 275, 293, 3988, 6723
 Boubals, D. 2080, 4923
 Boubekri, C. 309, 8083
 Boucaud, J. 6249, 6268
 Bouché-Pillon, S. 555, 2511
 Boucher, W. D. 5637
 Bouchery, Y. 1963
 Bouchon, J. 3706, 5586
 Boudier, B. 7114
 Bouffin, J. 8976
 Boughediri, L. 9899
 Bouglé, D. 3554
 Boukadida, R. 6933
 Boukhriess, H. 10823
 Boulard, T. 48-49, 4685, 5567, 7684, 8683
 Boulet, J. C. 3963, 6722
 Bouman, F. 5455
 Bounaga, N. 851
 Bound, S. A. 127, 5621
 Bounous, G. 181, 1137, 1994, 2577
 Bouquet, A. 3955-3956
 Bouranis, D. L. 8390-8392
 Bouretto, A. E. 4159
 Bourgeois-Chaillou, P. 4229
 Bourgeois, G. 6419, 8706
 Bourgeois, W. J. 1713, 10849
 Bourguignon, J. 8614
 Bourne, M. C. 5930
 Bourne, R. 6662
 Bourne, R. A. 1588
 Bourquin, J. C. 1220
 Bourrain, L. 8388, 10255
 Bourrut, J. C. 8662
 Boursiquot, J. M. 6709, 8440, 8444
 Bourzeix, M. 309
 Boutros, B. N. 4562-4563
 Bouwkamp, J. C. 9455
 Bouwmeester, H. J. 3718
 Bouyssou, H. 8912
 Bovigny, P. Y. 1622, 7912
 Bowbrick, P. 5
 Bowen, J. H. 2584, 4790, 5878
 Bower, C. C. 2783, 7933, 9193
 Bowers, E. J. 8443
 Bowers, J. E. 7048
 Bowler, C. 3300
 Bowles, D. J. 6938
 Bowman, G. 6635
 Bowman, K. D. 5368
 Bowman, L. 9983
 Bown, D. 1859
 Bowyer, J. 6862
 Boxtel, J. van 7309
 Boxus, P. 2034, 3937, 4886
 Boyce, P. 593, 610, 620, 676, 678-679, 681, 691
 Boydston, R. A. 5990
 Boyhan, G. E. 1807, 9041, 10198
 Boyle, T. H. 9746
 Bozhkova, V. 4858-4860, 9326, 10248
 Bozsik, A. 8384
 Boztok, Ş. 9646
 Bozzini, A. 1512
 Braaksma, A. 4267, 8723
 Brac de la Perrière, R. A. 851
 Bracale, M. 5056
 Brackmann, A. 9219, 10155
 Bracy, R. 906
 Bracy, R. P. 7701
 Bradford, J. M. 7188
 Bradford, K. J. 4171, 9576
 Bradlwarter, M. 7481
 Bradshaw, L. 7296
 Brady, A. 3699
 Brady, C. 1742
 Brady, C. J. 541, 3879, 5124
 Braem, G. J. 7064
 Braga, M. R. 5943
 Bragg, N. 1860
 Bragg, N. C. 2814
 Brahmachari, V. S. 6808
 Braidot, E. 9536
 Brain, P. 6443
 Brallier, S. 9427
 Braman, S. K. 7423
 Bramer, M. 10498
 Bramlage, W. J. 7395, 8319
 Brancadoro, L. 3031, 6719
 Branchard, M. 3106
 Brandão Filho, J. U. T. 5383
 Brande, K. van den 6799
 Brander, P. E. 4386
 Brandes, W. 2079, 3032, 3065
 Brandis, A. 4512
 Brändle, R. 9710
 Brandt, K. 7024
 Branham, B. E. 8812
 Brantlant, G. 349
 Branzanti, M. B. 1209
 Brar, G. S. 7036
 Brar, K. S. 5071, 6888, 6895, 7654, 7765, 7769, 7788, 7996
 Brar, P. S. 7654
 Brash, D. 9623
 Brash, D. W. 8395
 Brass, T. J. 9795
 Braswell, J. H. 8417
 Brathwaite, R. A. I. 7844
 Brauen, S. 4346, 8803
 Braun, H. 7497
 Braun, J. 2600, 7207
 Bravo, J. J. 5505
 Bravo González, S. 8882
 Brazil, Empresa de Pesquisa Agropecuária e de Extensão Rural de Santa Catarina S.A. 7405
 Brazil, Sociedade de Olericultura 6479-6480
 Brecht, J. K. 56, 2284, 4895, 5051, 5497, 6946, 10303
 Bredmose, N. 3492, 10723
 Breedt, H. J. 8942, 9875
 Breen, P. J. 5737
 Bregman, R. 9111
 Breisch, H. 6469
 Breloer, H. 2458
 Bremer, J. 5918
 Brenac, P. 8928
 Brence, A. 7580
 Brenes, M. 2653
 Bréniaux, D. 8299
 Brennan, N. J. 10766
 Brennan, R. M. 7567
 Brenneise, H. R. 9751
 Brenneman, G. L. 3012
 Brenner, A. J. 10039
 Brenner, H. 9164
 Breš, W. 9691
 Bressan, R. A. 8481
 Brestic, M. 424
 Breton, F. 946
 Breuils, L. 10184
 Breuninger, J. M. 8805
 Brewer, C. H. 7128
 Brewer, H. L. 2276
 Brewitz, E. 9596
 Brewster, P. 593
 Breyse, M. 7417
 Briand, F. 2320
 Briat, J. F. 5963
 Bricarello, M. 3523
 Bricco, D. 1153
 Briceño, O. 6426
 Brickell, C. D. 3699, 3703
 Brière, C. 4317
 Briegne, A. 8460
 Brigati, S. 220, 3862, 9304, 9307, 9339
 Briggs, B. 1896
 Briggs, C. L. 1692
 Brijn, L. la 9787
 Brijn-Jansen, L. la 9697
 Brillouet, J. M. 6363
 Brimble, M. A. 1980
 Brinza, D. 3902
 Briskin, D. P. 2143, 4054
 Brissou, C. 236
 Bristow, P. 236, 8415
 Brito, L. T. L. 8143
 Brits, G. J. 3508
 Britton, G. 5305
 Britton, K. O. 10733
 Britz, S. J. 8582-8583
 Broadbent, A. B. 1539
 Broadhurst, P. G. 4101
 Broberg, A. 4470
 Broderick, C. E. 1844
 Brodnik, U. 5627
 Brødsgaard, H. F. 6084, 8754
 Broek, R. C. F. M. van den 4982
 Broekaert, W. F. 10458
 Broembesen, S. L. von 1659
 Brökeland, R. 1019
 Bronner, A. 4902-4903
 Brookfield, P. L. 4790, 4798
 Brooking, I. R. 7029
 Broquedis, M. 260, 275, 293
 Brosch, B. 7497
 Broschat, T. K. 6224
 Brosh, P. 839
 Broto, W. 5556
 Brouard, J. S. 10054
 Brouillard, R. 4300, 10051
 Brouillet, L. 6108

- Brouwer, Y. 631
 Brown, M. F. 7070
 Brown, A. B. 5538
 Brown, E. G. 3220, 6212
 Brown, E. M. 5610
 Brown, G. C. 5911
 Brown, G. E. 4527
 Brown, G. K. 165, 10073, 10165, 10264, 10284
 Brown, G. R. 4743, 4752
 Brown, J. E. 317, 7774
 Brown, J. S. 900
 Brown, J. W. 5038
 Brown, M. A. 1742
 Brown, M. E. 2391
 Brown, M. T. 1707
 Brown, M. V. 3925
 Brown, M. W. 137, 2896
 Brown, N. A. C. 3508
 Brown, P. H. 5775, 7445, 8904
 Brown, R. D. 2470
 Brown, R. L. 4965
 Brown, S. A. 932
 Brown, S. K. 2800
 Brown, V. E. 7400
 Brownleader, M. D. 5120
 Bruant, B. 5693
 Brud, W. S. 8183
 Brüggemann, W. 3295, 4237
 Bruggen, A. H. C. van 366, 6914
 Brugnoli, E. 7952
 Bruin, H. A. R. de 9400
 Brukhin, V. B. 4313
 Brulińska-Ostrawska, E. 10069
 Brumfield, R. G. 487
 Brummell, D. A. 2310
 Brun, J. 6202
 Brun, O. 3988, 5763
 Brun, R. 7964, 8846, 8860, 9785
 Brunda, M. 295
 Brunel, E. 1005
 Brunelli, A. 3749, 5064, 5661-5662, 7447, 7811
 Brunet, Y. 5691, 6153
 Brunetti, R. 287, 1618
 Bruni, A. 4449
 Brunke, E. J. 10608
 Brunner, A. 1296
 Brunner, J. 5677
 Bruno, G. B. 4986
 Bruns, A. 3481
 Bruns, C. M. 4978
 Brunschön-Harti, S. 1377-1378
 Brunsmeier, K. 5584
 Brunt, A. A. 8179
 Brusewitz, G. H. 5670, 6421, 6636
 Brust, G. E. 910, 3664, 6417
 Brutsch, M. O. 9920
 Bruyn, M. H. de 4333
 Bryan, D. S. 9888
 Bryan, H. H. 1434, 5503-5504, 10987
 Bryant, J. A. 4171
 Bryde, N. 4575, 6374, 8117
 Brzezina, M. 659
 Brzostek, D. 2215
 Buana, L. 9987
 Bubán, T. 7493, 9182, 9235
 Bubenheim, D. 5568
 Bubenheim, D. L. 1897
 Bucelli, P. 9407
 Buchaman-Smith, J. 546, 2223
 Buchanan, B. B. 5117
 Buchmann, S. L. 2512, 3491
 Buckerfield, J. C. 9397
 Buckeridge, M. S. 5943, 6852
 Buckle, K. A. 4595
 Buckley, B., III 3919, 4178
 Buczek, J. 1366, 2214
 Buczkowska, H. 5073
 Budagovskaya, O. N. 9157
 Budathoki, K. 5813
 Budde, C. O. 5667
 Budge, S. P. 5846
 Budin, T. 1216
 Budini, R. 194, 4861
 Buendía, J. 1154
 Bueno, N. 9076
 Bueno, O. C. 3654
 Bueno, P. 3671
 Buffard-Morel, J. 1798, 2690
 Buffin, D. 2323
 Bugarski, D. 3231
 Bugbee, G. J. 6081
 Bugg, R. L. 9388
 Bughrara, S. S. 3445
 Bühler, M. 4775
 Buhr, L. 4015-4016, 4447
 Buis, R. 4317
 Buitendag, C. H. 2603
 Buján, M. 7763
 Bukovac, M. J. 3798, 4245, 6936, 8335
 Bulagay, A. N. 7534
 Bulatík, F. 9184
 Bülbül, S. 9272
 Bull, C. R. 9305, 10574
 Bulletin - North American Plant Protection Organization 8748
 Bulletin OILB/SROP 10673
 Bullock, R. C. 1727
 Bun, R. 8858
 Bünemann, G. 2869, 2879, 3778, 4764, 10113
 Bunker, K. V. 1530
 Bunn, D. G. 9424
 Bunn, J. M. 6037
 Bunnag, B. 10816
 Bunyard, B. A. 2361
 Burak, M. 7463, 7518, 7534
 Burandt, C. L., Jr. 9708
 Burau, R. G. 2298
 Burda, S. 2176
 Burdon, J. 9058
 Burdon, J. N. 230, 815
 Buret, M. 7520
 Burg, W. J. van der 396, 8652
 Burger, D. W. 2486, 3739
 Bürger, H. M. 1296
 Burger, J. 8821
 Burgess, P. J. 10005
 Burgio, G. 3242
 Burgos, L. 9251
 Burgos, P. A. 10805
 Buriol, G. A. 6504, 10414-10415
 Burke, J. J. 1101
 Bürki, M. 4659
 Burkill, H. M. 3698
 Burks, T. F. 5877
 Burlando, T. M. 4105
 Burmann, R. 5553
 Burmeister, D. M. 7501
 Burnet, M. 3113
 Burns, J. K. 5401, 7227
 Burondkar, M. M. 9980
 Burr, T. J. 10335
 Burrage, S. W. 495
 Burritt, D. J. 7889
 Burrus, M. 8791
 Burston, S. 6751
 Burton, K. S. 3334, 3343, 3353
 Burton, L. C. 8919
 Burton, N. 6240
 Burton, S. J. A. 10017
 Burza, W. 1354, 2200, 2215, 9503
 Burzo, I. 9668, 9698
 Busch, M. B. 6111
 Buschan, B. 3414
 Bush, S. 8989
 Bushway, A. A. 6659
 Bushway, R. J. 1054
 Businelli, D. 508
 Büsing, U. 588
 Bussard, M. L. 2135
 Busscher, R. de 6951, 9616
 Bussell, B. M. 2527
 Bussi, C. 4829, 6613
 Bustamante, C. 5480
 Bustamante García, L. A. 2283
 Bustan, A. 4523
 Busto, A. del 1721
 Bustos, V. 10934
 Buszard, D. 2053, 3732
 Buszard, D. J. 3935
 Butani, J. V. 9447
 Butenis-Vorsa, L. 1127-1128
 Butler, J. M. 9542
 Butler, S. H. 6197
 Butt, D. J. 111
 Butt, L. P. 1645
 Butt, S. J. 849
 Butt, S. K. 3091
 Buttery, R. G. 547, 549
 Buwalda, F. 3387
 Buxaderas, S. 2074
 Buxton, B. M. 4675
 Buxton, J. H. 3378
 Buyck, B. 1861
 Buysscher, G. de 10052
 Buysse, J. 3109, 6799
 Büyükyılmaz, M. 7463, 7518, 7534
 Byari, S. H. 9459
 Bycroft, B. 8395
 Bygrave, P. 6180
 Bykov, V. P. 2207
 Byoun, H. J. 1535-1536, 6207
 Byoun HyeJin 1535-1536, 6207
 Byrne, D. H. 5655
 Byther, R. S. 7446
 Byun, B. H. 6069
 Byun, J. K. 132
 Byun ByungHo 6069
 Byun JaeKyun 132
 Caballero, J. M. 2642
 Caballero, P. 1238, 3046
 Caballero Muñoz, R. 11022
 Cabanes, J. 8538
 Cabello, F. 4901
 Cabello, S. 7686
 Cabello, T. 2116
 Cabezas, B. 3544
 Cabilio, P. 8420
 Cabitza, F. 1730, 5387, 6623, 8956
 Cabot, F. 1170-1171, 2976
 Cabral, M. L. 187, 193
 Cabras, P. 5387, 6623, 8956
 Cabrera, M. 2139
 Cabrera, R. I. 5157, 7961
 Caccioni, D. 1165, 7552, 9339
 Cáceres, F. M. de 1419
 Cáceres, M. D. 2229
 Cachorro, P. 2236
 Cadahía, C. 1621, 3478
 Cadena, G. 7311
 Cadenas, B. 6048
 Cadet, F. 7843
 Cadinu, M. 354
 Cahoon, G. A. 6686
 Cai, J. H. 3005
 Cai, L. 4369
 Cai, L. N. 4472
 Cai, Q. G. 8394
 Cai, S. Q. 8817
 Cai, X. 658, 10658
 Cai, X. Y. 4495
 Cai, Y. L. 1995
 Cai, Y. M. 613
 Cai, Y. P. 1995, 3431
 Cai Lin 4369
 Cai LiNing 4472
 Cai QiGui 8394
 Cai ShaoQing 8817
 Cai Xue 658, 10658
 Cai YongLi 1995
 Cai YongPing 1995, 3431
 Cai YouMing 613
 Cain, P. 8434, 8446
 Cairns, K. G. 8873
 Caixinhas, M. L. 1267
 Cajuste Bontemps, J. 2583
 Cajuste Bontemps, J. F. 5359
 Cal, A. de 1452, 6018
 Calabrese, F. 2665
 Calado, A. M. 9584
 Calamai, P. 2131
 Calbo, A. G. 1484, 8698
 Caldas, R. C. 6438
 Caldeira, M. L. 4628
 Calderón, A. A. 1419, 3993
 Caldwell, M. M. 8581
 Calistru, G. 8452
 Calitz, F. J. 1093, 2902, 5613
 Calkins, J. B. 5563
 Callan, N. W. 6599
 Callebaut, A. 7002
 Callejas, R. 7561, 7636
 Callejo, M. J. 305
 Callensen, D. 7517
 Callesen, O. 1946
 Callewaert, D. 1015, 1373, 1886, 10055
 Callis, J. B. 2435
 Calò, A. 1236, 8438, 8442, 9390
 Caltagirone, L. 285
 Calus, A. 1015-1017, 1373, 1885-1887, 5547-5548, 5844, 7402, 10055
 Calvente, J. J. 9913
 Calvert, C. M. 6938
 Calvert, M. L. 8153
 Calvet, C. 1132, 5657, 9887
 Calvo, M. L. 3342
 Calvo Bado, L. A. 3354, 3357
 Calvo Bonacho, M. L. 7017
 Calzavara, B. B. G. 2774
 Calzoni, G. L. 9165-9166
 Camara, B. 1421
 Cámara, M. 878
 Cámara, M. A. 599, 1154
 Cámara Machado, A. da 1071
 Cámara Machado, M. L. da 1071
 Cambra, R. 2840-2841, 5686, 6598
 Camejo Corrales, J. 9824
 Camerlynck, R. 3053
 Cameron, A. C. 1053
 Cameron, P. J. 9599
 Camilleri, R. 6862
 Camino, M. 3681
 Cammilli, C. 3856
 Camp, H. J. M. op den 2343, 3347-3349, 3351, 6064
 Campagna, G. 7687
 Campbell, B. M. 7323
 Campbell, C. A. 5497
 Campbell, C. W. 5418
 Campbell, J. A. 4930, 9403, 10088, 10204
 Campbell, R. J. 13, 5417, 5420, 5448
 Campbell, S. 3579
 Campbell, W. F. 4817
 Campbell, W. H. 10400
 Campeglia, O. G. 8458
 Campen, R. C. 9179
 Campiglia, E. 2940, 5755, 8234
 Campion, B. 5927
 Campisi, S. 3995
 Campo, G. 5386
 Campos, M. 5426
 Campos, V. P. 7771
 Campostrini, F. 3038
 Camprubí, A. 1132, 5657, 9887
 Camus C., J. L. 4927
 Can, H. Z. 9243
 Canard, M. 911
 Cancelon, P. F. 5396
 Cancio, D. 4072
 Candilo, M. di 4205, 6004
 Candolfi, C. 1249
 Candolfi, M. 1250
 Candolfi-Vasconcelos, C. 1250, 3994
 Cané, G. 6326
 Cañero, R. 2116
 Cañete, M. 9411
 Cangy, C. 10591
 Canhail, R. 2595
 Canhoto, J. M. 6347
 Cannerini, S. 3523
 Cannon, T. A. 8583
 Cano, A. 9301
 Cano, E. A. 6993, 10561
 Cano, M. P. 878, 931, 9993
 Cano-Canchola, C. 6987
 Cano Ríos, P. 2700, 2706
 Cant, R. 1334
 Cantliffe, D. J. 3729, 5132, 6777, 7691-7692
 Cantore, V. 6778
 Cantos, M. 7607
 Cantwell, M. 4565, 5987, 7841
 Cantwell de Trejo, M. 2189
 Canut, H. 1527, 8912
 Cao, B. 4502

- Cao, H. J. 8619
Cao, L. 2633
Cao, P. R. 7355
Cao, Q. C. 1183
Cao, Q. L. 9174
Cao, R. B. 157
Cao, S. C. 376, 3138
Cao, W. H. 904, 5873
Cao, Y. F. 1070
Cao, Z. C. 4531
Cao, Z. X. 4326
Cao Bin 4502
Cao HongJin 8619
Cao PanRong 7355
Cao QiaoLing 9174
Cao ShouChun 3138
Cao WanHong 5873
Cao ZhaoChun 4531
Cao ZongXun 4326
Capecka, E. 6801, 9490
Capek, P. 8306
Capinera, J. L. 406
Capitani, D. 2355
Caporali, F. 2940, 5755, 8234
Capotorti, G. 4075
Cappelloni, M. 2992
Cappiello, P. E. 3468
Caprara, A. C. 4639
Caprile, J. 9191
Caprio, J. M. 718
Capriotti, M. 9303
Caraglio, Y. 4820
Carasco, C. 6400
Carasco, J. F. 5454
Carballo, M. 10880
Carballo García, B. M. 6883-6884
Carballo V., M. 885
Carberry-Long, M. 4803
Carbonell, E. A. 1721, 3591
Carbonneau, A. 4914
Carcia Bielma, M. A. 2493
Cárdenas, J. 7676
Cárdenas, M. 1410
Cárdenas-Soriano, E. 5999
Cardina, J. 8661
Cardinale, C. 4904
Cardinale, F. 8382
Cardona, G. 4583
Cardoni, M. 6629
Cardoso, A. I. I. 7839
Cardoso, M. A. 8924
Cardoso, M. O. 7789
Carey, A. T. 480
Cargnello, G. 4914
Cariddi, C. 1157
Carrisse, O. 1202, 8706
Carles, C. 349
Carletti, M. G. 354
Carlo, V. di 10405
Carlot, D. 3903
Carlson, C. 9645
Carlson, W. 6097
Carlson-Nilsson, U. 4899
Carmeli, S. 1489-1490
Carmen, P. 2370
Carmichael, R. 2460
Carneiro, J. E. S. 5929
Carneiro, L. C. 7601
Carnelli, A. 2191
Carnevali, G. 3863, 7062
Caro, M. 6007
Caron, J. 6232-6233
Carpena, O. 6817, 8570, 8946
Carpena-Artes, O. 6313
Carpena-Ruiz, R. 1391, 2260
Carpena-Ruiz, R. O. 6313
Carpenter, W. J. 5233
Carpentier, R. 529
Carpita, N. C. 3423
Carr, M. K. V. 10005
Carr, S. M. 530
Carracedo, A. E. 5505
Carraro, L. 4774
Carraro, R. 8438
Carrasco, A. 8912
Carrasco de Brito, J. 2160
Carreira, D. 1375
Carreño, J. 261, 303, 4003
Carreño, R. 3562
Carrier, P. 2986
Carrillo, T. D. 2979
Carrington, C. M. S. 4247
Carris, J. P. 5160
Carro Mariño, N. 10356
Carroll, R. J. 5108
Carron, M. P. 2742
Carrow, R. N. 4350, 4356, 6141, 8801, 10667
Carrubba, A. 5317
Carruthers, R. I. 9044
Carswell, F. E. 8884
Carter, A. K. 7772
Carter, G. A. 7128
Carter, J. R. L. 5190
Cartia, G. 476
Cartwright, B. 9958
Cartwright, D. K. 719
Caruso, F. L. 985
Caruso, P. 4022, 5953
Caruso, T. 2021, 2947, 3834, 3844, 3900
Carvajal, M. 5996
Carvajal, N. 5931
Carvalho, G. A. de 6201
Carvalho, G. R. 5705
Carvalho, J. G. de 8060
Casadoro, G. 5080, 5663, 7193
Casagrande, E. 3820
Casagrande, R. A. 2407
Casali, P. 3316
Casali, P. E. 5063, 7762
Casali, V. W. D. 3125, 7696, 7817, 10412
Casano, L. M. 5943, 5946, 6852
Casarotti, D. 3666
Cascone, G. 6501
Casera, C. 9222
Casero, P. J. 1469, 6758, 10387
Cases, B. 1238
Casetta, B. 2105
Casey, R. 2256
Cashew 7279
Cashikar, A. G. 8597
Cashmore, W. 3780
Cashmore, W. M. 85, 7465
Casimiro, I. 6758, 10387
Caspari, H. W. 5676
Cassagne, C. 3087, 4029-4030, 5793, 5795-5796
Casse-Delbart, F. 2192, 7721
Castaigne, F. 4119
Castañé, C. 5903
Castañer, M. 9467
Castel, J. R. 6327, 9882
Castelán-Estrada, M. 10944
Castelao, A. M. 7763
Castell, V. R. 5801
Castellane, P. D. 506, 2295, 4966
Castellani, M. 7867
Castellano, J. M. 5432, 8105
Castellano, M. A. 7563
Castellanos, M. 3586
Castelnuovo, M. 3426
Castia, T. 7229
Castiglione, M. R. 8101
Castilla, N. 332, 7411
Castillo, M. A. 291
Castillo, R. 291, 7346
Castillo Martínez, R. 2777
Castle, W. S. 4498
Castonguay, Y. 4251
Castrejon, V. 3681
Castrillo, M. 10495
Castro, A. de 4453
Castro, A. M. C. 4159
Castro, M. de M. 10740
Castro, R. D. de 3257
Castro, R. de 4914, 7605
Castro Castaño, R. 2305
Castro de Rincón, C. 6424, 6427
Casutt, M. M. 9225
Catalá, C. 1470
Catalano, V. 1224
Cataldi Lupo, M. C. 3995
Cate, C. H. H. ten 10727
Catley, J. L. 4303, 7029
Catoni, M. 1096
Cattivello, C. 1261, 2813
Causin, R. 10199
Cauwer, I. de 9000
Cavagnaro, J. B. 1301
Cavalié, S. 6060
Cavalier, R. 6622
Cavallaro, V. 2289
Cavalli, V. 287
Cavallini, G. 7640
Cavanagh, T. 9711
Cavazzoni, V. 576, 3332
Cavero, J. 5995
Cavichioli, D. M. M. 1804
Cavuto, S. 2084
Cayuela, E. 6007
Cazaux, L. 8912
Cazeville, P. 7417
Cazzola, P. P. 7507, 7524
Cebula, S. 478, 532, 3239-3240, 9556, 10526-10527
Ceccarelli, L. 3617
Ceccarelli, N. 3108
Ceccatelli, M. 5566
Cecchi, G. 9527
Cecchi, J. M. 8110
Ceccotti, S. P. 8222
Cecil, J. S. 737, 741, 8869-8870
Cecon, P. R. 10412
Cedeño-Maldonado, A. 1715, 10949
Cedillo-García, R. 8215
Çelik, E. 373
Çelik, H. 4916
Çelikel, F. G. 9660, 10646
Cen, B. Z. 6258
Cencic, L. 9160
Çengel, M. 3865
Centeno, M. L. 2988
Centritto, M. 9268
Centurion, M. A. P. C. 3199
Cera, M. 8987
Cerceanu-Larrival, M. T. 9899
Cerdá, A. 2236
Cerde, D. 2119
Cerdeira, R. M. M. 3547, 5341
Cerezal, P. 7832
Cerezine, P. C. 3516
Cerezo, M. 1723
Černe, M. 356
Černý, J. 9594
Černý, M. 3415
Cerny, T. A. 1529
Cerón, J. J. 599, 7866
Cerrón Madrigal, J. J. 1537
Ceroni, G. 7552
Cerović, S. 1139
Cerovic, Z. G. 8611
Cerrato, M. 4921
Cerrrolaza, A. 10516
Cervantes, L. A. 2017
Cervelli, C. 677
Cervelli, R. 2478
Červenski, J. 8542
Cervone, F. 5947
Cesare, L. F. di 2631
Cesari, A. 279
Cesbron, V. 3361
Cesco, S. 7746
Cestaro, M. 7421
Ceustermans, N. 4990, 6923, 8566
Ceylan, A. 10776
Chaain, A. 4400
Chaari Rkhiis, A. 10881
Chabrier, C. 10846
Chabrillange, N. 4570
Chachin, K. 5399, 9373
Chacín, F. 4994, 5135
Chacín Lugo, F. 1480
Chacón, A. 2294
Chadha, K. L. 9112, 10030-10032
Chadha, M. L. 9438
Chae, Y. A. 6255, 8001
Chae YoungAm 6255
Chagas, J. M. 5928
Chagvardieff, P. 2985-2986
Chahal, D. S. 6125
Chai, J. K. 8733
Chai JungKi 8733
Chaimongkol, C. 4464-4465
Chaisuksant, R. 2524
Chakarwar, V. R. 10003
Chakrabarti, H. S. 4337
Chakrabarti, K. 9755
Chakrabarty, B. K. 933
Chakrabarty, D. N. 11004
Chakraborty, A. 7316
Chakraborty, P. K. 7316
Chakraborty, S. 9859
Chakravarty, D. 9057
Chalard, T. 5828
Challa, O. 9999
Challapilli, A. P. 10026
Challen, M. P. 3346
Challinor, P. F. 3383
Chalmers, D. J. 5676
Chalupowicz, L. 1156
Chalutz, E. 1156
Chamarro, J. 1470
Chambat, G. 6654-6655, 8406
Chambonnière, S. 8174
Chambroy, Y. 10184-10185
Chamel, A. 4391
Champ, B. R. 4665
Champay, N. 5336
Chan, C. R. 1928
Chan, J. W. Y. F. 6707
Chan, L. K. 928
Chan, W. H. 10000
Chan LaiKeng 928
Chan WengHoong 10000
Chanana, Y. R. 5653
Chanawongse, L. 10816
Chand, M. 9168
Chand, P. K. 10800
Chand, R. 10379
Chand, S. 10800
Chanda, S. 10600
Chanda, S. V. 4125, 6853
Chandel, K. P. S. 2668
Chandel, S. K. 4538
Chander, R. 7485
Chandiwna, S. K. 2563, 9843
Chandler, C. C. 9366
Chandler, C. K. 3942, 4887, 8425-8426
Chandler, P. 6272
Chandra, A. 8087
Chandra, H. 847
Chandra, K. 9012
Chandra, R. 2716, 7793, 10947
Chandran, R. S. 8845
Chandrasena, J. P. N. R. 7356
Chandrashekar, T. R. 941
Chandrashekariah, S. C. 2521
Chandravanshi, S. S. 527
Chandwade, P. M. 3324
Chaney, R. L. 3293
Chaney, W. R. 9774
Chang, A. 4312
Chang, A. H. 3585
Chang, C. C. 9995
Chang, C. F. 4108, 8553
Chang, C. P. 3021, 6350
Chang, C. S. 3989
Chang, D. C. N. 606
Chang, F. 9953
Chang, J. W. 969
Chang, K. H. 132
Chang, K. W. 6694
Chang, L. R. 270
Chang, M. K. 8587
Chang, M. U. 697
Chang, S. K. 6783
Chang, S. M. 6286-6287
Chang, S. S. 3585
Chang, T. C. 9462
Chang, W. C. 558
Chang, W. H. 5860
Chang, Y. S. 9852
Chang, Z. F. 3102
Chang AiHwa 3585
Chang ChaurFen 4108, 8553
Chang ChiaPao 6350
Chang ChihSheng 3989
Chang ChingChyn 9995
Chang ChiNing 606
Chang JingWu 969
Chang KuoWei 6694
Chang KyungHo 132
Chang LinRen 270
Chang MooUng 697
Chang SangMoon 6286-6287

- Chang ShuehKun 6783
 Chang SuSan 3585
 Chang TseChou 9462
 Chang WenHung 5860
 Chang YoungSun 9852
 Chang ZhaoFeng 3102
 Chantaranonthai, P. 7380
 Chanteloube, F. 7022
 Chao, C. P. 7269
 Chao, K. 6199
 Chao, W. C. 9100
 Chao WangCheng 9100
 Chaoui, A. 8591
 Chapital, D. C. 8587
 Chaplin, M. F. 5120
 Chapman, D. K. 5879
 Chapman, P. 9442
 Chappelka, A. H. 6211
 Chappelle, E. W. 8583
 Charan, B. 623
 Chareonthiphakorn, N. 8162
 Charhabaili, Y. 4801, 5630
 Charles, D. J. 7145
 Charles, J. G. 7560
 Charlet, T. 4165
 Charlton, R. E. 8300
 Charmillot, P. 7622
 Charmillot, P. J. 286, 1245, 7623
 Charpentier, J. P. 5690
 Charpentier, K. 3958
 Charpentier, S. 3477
 Charron, C. S. 3729, 7691-7692
 Chartier, R. 1086
 Chartzoulakis, K. 3248, 7783
 Chartzoulakis, K. S. 400
 Charushnikov, V. A. 6796
 Chase, C. D. 6331
 Chase, M. W. 4370, 10708
 Chassagne, D. 6363
 Chat, J. 3908
 Chatfield, J. A. 4423-4424
 Chatterjee, A. 7198, 7767
 Chatterjee, B. P. 898
 Chatterjee, M. L. 7280
 Chatterjee, S. K. 8008
 Chatterjee, S. R. 2243, 7960
 Chatterton, N. J. 1304, 4983
 Chatti Dridi, B. 10211
 Chattopadhyay, N. 1828, 4590, 10914
 Chattopadhyay, P. 5354
 Chattopadhyay, P. K. 853, 950, 2670, 6464, 8122, 9110
 Chattopadhyay, S. 5342
 Chattopadhyay, T. K. 3421, 7236
 Chaturvedi, O. P. 7891
 Chatzoudis, G. K. 3283
 Chau, K. V. 56
 Chaudhari, M. H. 2720
 Chaudhari, S. M. 3324, 6608
 Chaudharu, S. M. 10939
 Chaudhary, A. S. 7239
 Chaudhary, D. R. 9472
 Chaudhary, F. M. 9740
 Chaudhary, M. F. 10540
 Chaudhary, N. L. 8087
 Chaudhary, O. P. 5303
 Chaudhri, T. A. 10773
 Chaudhry, M. N. A. 7776
 Chaudhuri, D. 9071
 Chaudhury, R. 2668
 Chauhan, B. B. S. 8084
 Chauhan, J. S. 1178, 9291
 Chauhan, K. S. 1853
 Chauhan, S. K. 2820, 6186
 Chauhan, S. V. S. 10525
 Chauhan, V. S. 8049
 Chaumont, D. 5351
 Chaumont, M. 3063
 Chaurasia, R. K. 3559
 Chaurasia, R. S. 6298
 Chauveau, M. 6132
 Chavan, U. D. 9595
 Chavaric, C. 6954
 Chaves, A. 3949
 Chaves, A. R. 3948
 Chaves, J. C. D. 10925
 Chaves, L. C. da S. 3884, 3979
 Chávez, R. 1609
 Chávez Franco, S. 5359
 Chawla, B. 8411
 Chazalet, M. 2425
 Cházaro Basañez, M. 9741
 Chazarra, S. 8538
 Chazelle, L. 9785
 Chebotar, A. A. 2533
 Cheema, D. S. 545, 7788
 Cheema, S. S. 2591
 Chekol, T. 292, 299
 Chellemi, D. O. 1433, 4204
 Chelpiński, P. 163, 8337, 9353
 Chen, B. H. 3684
 Chen, B. J. 7195
 Chen, B. K. 8645
 Chen, C. G. 10831
 Chen, C. M. 5030
 Chen, C. N. 8158
 Chen, C. R. 5740
 Chen, D. C. 1854
 Chen, D. D. 6421
 Chen, D. F. 9840
 Chen, D. M. 1105, 3472, 9895
 Chen, D. Q. 10859
 Chen, E. H. 5293
 Chen, F. Q. 3253
 Chen, G. 9487
 Chen, G. F. 4087
 Chen, G. H. 739
 Chen, H. 1575, 2854, 7353
 Chen, H. C. 1421, 4502
 Chen, H. J. 5128, 6653
 Chen, H. M. 3483
 Chen, H. R. 1502
 Chen, H. Y. 10689
 Chen, I. Z. 4630, 9056
 Chen, J. B. 8203
 Chen, J. C. 7259
 Chen, J. H. 3810
 Chen, J. L. 2499
 Chen, J. X. 3431, 5256
 Chen, J. Y. 1603-1604, 2712, 2754, 3157-3158, 3673, 3892, 4490, 5634
 Chen, J. Z. 1739
 Chen, K. 1719
 Chen, K. L. 4516
 Chen, K. S. 843, 2624, 5669
 Chen, L. 2258
 Chen, L. F. 4326
 Chen, L. P. 4825
 Chen, L. X. 10866
 Chen, M. 326
 Chen, M. H. 1081
 Chen, M. Y. 8203
 Chen, M. Z. 617
 Chen, N. 167
 Chen, N. C. 4035, 5860
 Chen, N. R. 4542
 Chen, P. 1986, 10081
 Chen, P. C. 2040
 Chen, P. M. 2017, 2973, 5679, 8371
 Chen, Q. 4218
 Chen, Q. H. 10269
 Chen, Q. J. 843
 Chen, Q. Q. 10612
 Chen, Q. X. 1826, 7237
 Chen, R. 5030
 Chen, R. M. 6171
 Chen, R. Y. 363
 Chen, S. L. 1894, 2655, 10432
 Chen, S. M. 4319, 5860
 Chen, S. P. 1708
 Chen, S. Y. 2762-2763, 2883
 Chen, T. J. 6428
 Chen, T. T. 837
 Chen, W. 3152
 Chen, W. H. 2450, 4419, 8203
 Chen, W. M. 9895
 Chen, W. R. 8736
 Chen, X. C. 6188
 Chen, X. F. 3876
 Chen, X. G. 6727
 Chen, X. L. 269, 3795, 7019, 8276
 Chen, X. N. 6627
 Chen, X. W. 1411, 8892, 9840
 Chen, X. Y. 3203
 Chen, Y. 4320
 Chen, Y. D. 1342
 Chen, Y. R. 2374, 2500
 Chen, Z. B. 5748
 Chen, Z. G. 5423, 8939
 Chen, Z. H. 832, 1103, 3600, 8736
 Chen, Z. J. 8630
 Chen, Z. M. 951
 Chen, Z. S. 8739
 Chen BingJun 7195
 Chen ChingNen 8158
 Chen CuiRen 5740
 Chen DaCheng 1854
 Chen DaMing 1105, 3472
 Chen DeFu 9840
 Chen ErHe 5293
 Chen FuQuan 3253
 Chen Guang 9487
 Chen GuangFu 4087
 Chen HaiRong 1502
 Chen HanChu 4502
 Chen HeMing 3483
 Chen Hong 1575, 2854
 Chen HsiuYu 10689
 Chen Hsuan 7353
 Chen HsuChing 1421
 Chen HueyJen 5128, 6653
 Chen IouZen 4630, 9056
 Chen JianChu 7259
 Chen JianYuan 1603-1604
 Chen JieYu 2712, 2754, 3157-3158, 3673
 Chen JieZhong 1739
 Chen JingXian 3431
 Chen JingYi 3892
 Chen JunLin 2499
 Chen JunXian 5256
 Chen JunYu 5634
 Chen Kai 1719
 Chen KeLing 4516
 Chen KunSong 843, 2624, 5669
 Chen LiangFu 2258, 4326
 Chen LiangPei 4825
 Chen MeiHong 1081
 Chen MinZi 617
 Chen NaiChin 5860
 Chen NaiRong 4542
 Chen Ning 167
 Chen PeiCong 2040
 Chen Qian 4218
 Chen QingHong 10269
 Chen QingJun 843
 Chen QingXi 7237
 Chen QiongXian 1826
 Chen QuanQing 10612
 Chen RiYuan 363
 Chen RuMin 6171
 Chen ShengLu 10432
 Chen ShenMing 4319
 Chen ShihLueh 1894, 2655
 Chen ShuangYing 2883
 Chen ShuPing 1708
 Chen ShuYao 2762-2763
 Chen SuMing 5860
 Chen TaiJen 6428
 Chen TengTu 837
 Chen WanRu 8736
 Chen Wei 3152
 Chen WeiHui 4419
 Chen XiaoChun 6188
 Chen XiaoGuang 6727
 Chen XiaoLiu 3795, 8276
 Chen XiaoNing 6627
 Chen XiaoYong 3203
 Chen XingLi 269
 Chen XinLu 7019
 Chen XiWen 9840
 Chen XuiFang 3876
 Chen Yan 4320
 Chen YuDi 1342
 Chen YungReui 2374, 2500
 Chen ZengHong 8736
 Chen ZhenBang 5748
 Chen ZhengHua 1103
 Chen ZhenGuang 5423, 8939
 Chen ZhiHui 832, 3600
 Chen ZhiJie 8630
 Chen ZongMao 951
 Chen ZuengSang 8739
 Cheng, B. S. 8891
 Cheng, B. T. 9478
 Cheng, C. Y. 4630, 9056
 Cheng, F. 4087
 Cheng, F. H. 3892
 Cheng, G. L. 3973
 Cheng, G. Y. 7168
 Cheng, P. G. 6900
 Cheng, H. 2762-2763, 6727, 10016
 Cheng, H. Y. 9090
 Cheng, L. 4256
 Cheng, M. H. 2768
 Cheng, M. K. 8164
 Cheng, P. G. 6900
 Cheng, S. H. 3719, 3773
 Cheng, W. 2753
 Cheng, W. X. 1741
 Cheng, Y. L. 10798
 Cheng, Z. 7294
 Cheng, Z. Y. 2040, 11002
 Cheng BingSong 8891
 Cheng BingTeh 9478
 Cheng ChengYung 4630, 9056
 Cheng Fei 4087
 Cheng FuHou 3892
 Cheng GuangYu 7168
 Cheng GuoLi 3973
 Cheng Hao 2762-2763, 10016
 Cheng Hong 6727
 Cheng HunYuan 9090
 Cheng Liang 4256
 Cheng MingHao 2768
 Cheng MingKe 8164
 Cheng PingGe 6900
 Cheng ShuHan 3719, 3773
 Cheng Weier 2753
 Cheng WenXiang 1741
 Cheng YaLi 10798
 Cheng ZhuYu 2040, 11002
 Cheong, J. W. 3024, 3243, 10466
 Cheong JaeWoan 3024, 3243, 10466
 Chepurnaya, V. I. 1150
 Chérif, A. 7241, 10887
 Cherif, J. 2661
 Chernet, V. I. 4781
 Chernef, L. B. 3960
 Chernobai, O. G. 4871
 Cherrad, M. 6723
 Cherubino, S. 91
 Chervin, C. 9313
 Chessa, I. 5405
 Chesters, N. C. J. E. 2543-2544
 Chet, I. 10501
 Chetty, M. B. 7006
 Cheung, K. H. 3886
 Cheung, P. C. K. 6972
 Cheung KyeongHo 3886
 Chevalier, G. 5152
 Chew, K. W. 10982
 Chew-Madinaveitia, Y. I. 5999
 Cheyrias, J. M. 4232
 Chharia, A. S. 2836
 Chi, F. 155
 Chi, G. L. 7716
 Chi, J. H. 10590
 Chi, J. W. 4818
 Chi, K. S. 8493
 Chi, Z. N. 6974
 Chi Fang 155
 Chi GekLan 7716
 Chi JeongHyun 10590
 Chi JianWen 4818
 Chi KungShy 8493
 Chiang, M. H. 1328, 5016
 Chiang MaeHee 5016
 Chiariotti, A. 7558
 Chiasson, H. 5736
 Chiatante, D. 437, 5055
 Chib, H. S. 8239
 Chiba, K. 3758, 10101
 Chiba, M. 387
 Chiba, S. 574
 Chicca, M. del 5755
 Chichinadze, Zh. A. 7621
 Chichiricó, G. 2224
 Chien, D. 704
 Chieragato, C. 3369
 Chiesa, A. 5934
 Chiesotsu, S. 7266
 Chikaizumi, S. 844
 Chikaoka, I. 6821
 Chikasa, P. 10054

- Childers, N. F. 6470
 Chillemi, G. 3485, 4180
 Chillet, M. 9013
 Chilton, W. S. 719, 4409
 Chimal, H. A. 5193
 Chimmad, V. P. 10026
 Chin, J. 9748
 China, Chinese Society for Horticultural Science 14
 China, Shanxi Fruit Research Institute 9170
 Chinnamma, N. P. 10762
 Chino, K. 1424
 Chinou, I. 8927
 Chioco, L. R. 9693
 Chiou, C. Y. 7370
 Chiou ChuYing 7370
 Chirapart, A. 1701
 Chirinos, D. T. 10555
 Chirol, N. 629
 Chirwa, P. W. 10054
 Chisci, G. 8016
 Chitale, K. 571
 Chitkara, S. D. 4827, 4834
 Chittams, J. L. 1423
 Chittapur, B. M. 5994
 Chitwood, D. J. 6014
 Chitzanidis, A. 10224
 Chiu, K. Y. 1809-1810
 Chiu, S. Y. 8741
 Chiu ShiauYen 8741
 Chizhik, Yu. L. 7675
 Chizzola, R. 9815
 Chkhikvishvili, I. D. 5394
 Chlebowska, D. 3782
 Chmiel, H. 5264, 9667
 Chmyr', P. G. 2893, 7483
 Cho, C. H. 645
 Cho, C. R. 2559
 Cho, D. H. 8737, 10218
 Cho, H. M. 3890-3891
 Cho, J. K. 3358, 3628, 5150
 Cho, J. L. 10524, 10543, 10932
 Cho, J. R. 2831
 Cho, J. T. 3380, 10655, 10704
 Cho, J. Y. 10551
 Cho, K. S. 3891
 Cho, K. Y. 3082
 Cho, Y. K. 8079-8080
 Cho ChungHo 645
 Cho ChungRae 2559
 Cho DooHyun 10218
 Cho DuckHyun 8737
 Cho HyeonMo 3890-3891
 Cho JaeKyu 3358, 3628, 5150
 Cho JeoungLai 10524, 10543, 10932
 Cho JinTae 3380, 10655, 10704
 Cho JumRae 2831
 Cho KwangSik 3891
 Chohan, G. S. 2590, 4497
 Choi, B. R. 2831, 10779
 Choi, B. S. 330, 1495, 2108, 2175, 2302, 2805, 3069, 3165, 3179, 3419, 4606, 8992, 10218, 10584, 10725-10726
 Choi, I. H. 3100
 Choi, I. S. 10655
 Choi, J. 6286-6287
 Choi, J. H. 10241
 Choi, J. K. 6112, 10621, 10629
 Choi, J. M. 1534, 1566, 4291, 6090, 9692, 10637
 Choi, J. S. 665, 3416
 Choi, K. B. 3069, 4463, 4606
 Choi, K. J. 409, 4131
 Choi, K. M. 2891
 Choi, K. S. 3321, 3380, 3425
 Choi, P. S. 8546
 Choi, S. H. 3069, 4463, 4606
 Choi, S. R. 10618
 Choi, S. T. 10617, 10649, 10659
 Choi, S. Y. 10218, 10232
 Choi, Y. 3435
 Choi, Y. B. 6855
 Choi, Y. E. 3179, 10793
 Choi, Y. H. 3243, 10466
 Choi BooSull 330, 2108, 2175, 2302, 2805, 3069, 3165, 3419, 4606, 8992, 10218, 10584, 10725-10726
 Choi ByoungRyoul 10779
 Choi ByungRyul 2831
 Choi InHu 3100
 Choi InSik 10655
 Choi JinHo 10241
 Choi JongMyung 1534, 1566, 4291, 6090, 9692, 10637
 Choi JooKyun 10621
 Choi JoonSoo 665
 Choi JoungSik 3416
 Choi JuKyun 6112, 10629
 Choi Jyung 6286-6287
 Choi KuiMoon 2891
 Choi KwanSoon 3321, 3380, 3425
 Choi KyongBai 3069, 4463, 4606
 Choi KyongJu 409, 4131
 Choi PilS 8546
 Choi SangTai 10617, 10649, 10659
 Choi SeongRoul 10618
 Choi SeongYong 10218, 10232
 Choi SoonHo 3069, 4463, 4606
 Choi YongEui 10793
 Choi Young 3435
 Choi YoungHah 3243, 10466
 Chojnacki, T. 6348
 Chokyu, S. 1404
 Cholewiński, A. 10503
 Chohuj, D. 7807, 7818
 Chon, S. U. 602, 3156, 6785, 7033
 Chon SangUk 602
 Chong, C. L. 6436
 Chong, D. T. 9072, 9074
 Chong ChiewLet 6436
 Chong DaiThai 9072, 9074
 Choo, H. Y. 4105
 Choong, Y. M. 4514
 Choong YoukMeng 4514
 Chopra, H. R. 5653
 Chopra, S. K. 10158
 Chou, T. H. 2357
 Chou, W. Y. 2655
 Chou TyngHorng 2357
 Chou WeiYu 2655
 Choudhari, S. M. 873-874, 966, 7329-7330, 9874, 9971
 Choudhary, M. I. 10463
 Choudhary, P. K. 8640, 9568
 Choudhary, R. 855
 Choudhury, D. A. M. 1426
 Choudhury, E. N. 1816
 Choudhury, H. 9012
 Choudhury, M. M. 1816
 Choudhury, N. K. 9495
 Choudhury, R. G. 6732
 Choudhury, S. 6215
 Chougale, S. S. 6750
 Chougule, M. A. 6214
 Chouinard, G. 10125
 Chouliaras, V. 2039, 3917
 Choung, M. G. 2562
 Choung MyoungGun 2562
 Chovatia, V. P. 7949
 Chovelon, M. 2101, 2104, 8460
 Chow, C. S. 9059
 Chow, L. P. 6767
 Chow, W. S. 445, 5057, 6864, 6866-6867, 8608-8609
 Chow CheeSing 9059
 Chow WahSoon 6864, 6866-6867, 8609
 Chowde Gowda, M. 3141
 Chowdhury, J. B. 10427
 Chowdhury, S. 9766
 Chozhan, K. 6261
 Chraibi, A. 1302
 Chrestin, H. 945
 Chrispeels, M. J. 5048
 Christensen, J. V. 2842, 7517
 Christensen, L. P. 3999, 7024
 Christenson, E. A. 1613-1614, 3462, 7056, 7934, 9757
 Christians, N. E. 1581, 3443, 8745
 Christie, C. B. 7119
 Christie, M. 8297
 Christopoulou, E. 8988
 Chronopoulos, J. 10717
 Chronopoulou-Sereli, A. 10717
 Chu, C. 6161
 Chu, C. K. 1332
 Chu, Z. X. 10471
 Chu ChitKay 1332
 Chu Chun 6161
 Chu ZhongXi 10471
 Chua, N. H. 3300
 Chua NamHai 3300
 Chude, V. O. 4963
 Hugh, L. K. 6859
 Chukwu, E. U. 9939
 Chumikina, L. V. 2246, 7756
 Chumsangchoteakul, S. 4156
 Chung, B. K. 10895
 Chung, D. S. 3629, 9615
 Chung, G. C. 409, 4131
 Chung, H. D. 247
 Chung, H. G. 10782
 Chung, H. J. 645
 Chung, H. S. 3432
 Chung, H. W. 6742
 Chung, I. S. 8001
 Chung, J. D. 697
 Chung, K. H. 7532
 Chung, M. I. 1776
 Chung, M. N. 10522
 Chung, R. S. 8550, 9462
 Chung, S. J. 602, 1538, 10551
 Chung, S. K. 10637
 Chung, S. Y. 695
 Chung, W. C. 3810
 Chung, W. K. 9374
 Chung BuKeun 10895
 Chung DaeSung 3629, 9615
 Chung GapChae 409, 4131
 Chung HaeGon 10782
 Chung HaeJun 645
 Chung HaWoo 6742
 Chung HeeDon 247
 Chung HyunSuk 3432
 Chung JaeDong 697
 Chung KyeongHo 7532
 Chung Meiling 1776
 Chung MooNam 10522
 Chung RenShih 8550, 9462
 Chung SoonJu 602, 1538
 Chung SoonKyung 10637
 Chung WooKyung 9374
 Chvyl, W. L. 737, 741, 8869-8870
 Chyou, M. S. 2450
 Ciampolini, F. 1657, 2217, 4155, 8585
 Ciampolini, M. 4694
 Ciamporová, M. 4664
 Cianciara, Z. 9341, 9347
 Ciardi, C. 107
 Cicala, A. 5443
 Ciccarese, L. 1182
 Ciepielewska, D. 770
 Ciereszko, I. 5937
 Cieśliński, G. 2060, 2867
 Cifuentes, J. 6987
 Cildari, A. M. 3830
 Cilliers, B. 1745
 Cimanowski, J. 8402
 Cimato, A. 8989, 9911
 Cinelli, F. 1180-1181, 2031, 5655
 Cingel, N. A. van der 1862
 Cipriani, G. 8445
 Circella, G. 3526
 Circetta, G. 5317
 Cirrito, V. 4720
 Ciruzzi, B. 7564
 Cisek, B. 8262
 Ciska, E. 6798
 Cissé, M. B. 5839
 Citores, L. 2709
 Cituk Chan, D. 9877
 Civello, P. M. 3948
 Claasens, N. J. F. 801
 Claassen, L. 7527
 Claassens, N. J. F. 3574
 Clapaki, G. 3618, 6361
 Clapperton, J. F. 2685
 Clark, C. J. 8396
 Clark, G. A. 3265, 8643, 10933
 Clark, G. B. 4362
 Clark, G. E. 4339
 Clark, J. 7119
 Clark, J. R. 1199, 2509, 3919, 4875, 4879, 5762, 6652, 6656, 6662, 10278-10279, 10283
 Clark, L. G. 1585
 Clark, R. B. 1324, 5863, 6790, 7708
 Clark, S. J. 2443
 Clarke, A. 2881
 Clarke, A. E. 4312, 7879
 Clarke, J. 10054
 Clarke, M. C. 10559
 Clarke, T. R. 1171
 Clarkson, B. D. 8880
 Claussen, T. 2362
 Claveria, E. 2020
 Clayton, M. 3807
 Cleary, A. L. 6165
 Cleland, D. J. 1053, 2918, 8312
 Clemants, S. E. 9768
 Clemens, J. 7119
 Clément, A. 937, 947, 5508-5509, 10998
 Clément, C. 8791
 Clement, C. R. 1855, 5524, 9105
 Clemente, H. S. 6437
 Clemente Alcodori, J. M. 7017
 Clements, M. A. 7065
 Clerc, M. H. le 8865
 Clerkx, A. C. M. 9791
 Clifff, M. A. 2923, 6597
 Clift, A. D. 4270, 8071
 Clijsters, H. M. M. 6848
 Cline, J. A. 2937-2938
 Cline, M. G. 10071
 Cline, R. A. 9290
 Clingeffer, P. R. 268
 Close, T. J. 6521
 Clothier, B. E. 5605, 5676, 10114
 Cloughley, J. B. 7152
 Cloutier, D. 7834
 Cloutier, D. C. 4402, 6419
 Coastal Seeds Inc. 4071
 Coat, G. 3555
 Coates, L. 5529
 Coates, W. 10815
 Coates, W. W. 9239
 Çobani, H. 5087
 Cobelli, L. 7811
 Cobin, J. A. 8909
 Cobo, I. 7046
 Cochet, N. 564
 Cochran, J. 5721
 Cociu, V. 9230
 Cockshull, K. E. 5170
 Coccozza Talia, M. A. 7025
 Coelho, E. F. 7801
 Coelho, F. 7605
 Coetzee, J. G. K. 6321
 Coetzer, L. A. 798, 803, 3573, 10960
 Coeur, C. le 5356
 Coffey, D. L. 3195
 Cogez, X. 1775
 Coggins, C. W., Jr. 1738
 Coggins, J. R. 2255
 Cohen, C. 791
 Cohen, E. 7223
 Cohen, J. D. 5122, 7827, 9969
 Cohen, R. 8573
 Cohen, S. 4777
 Cohen, Y. 1812
 Cohen-Addad, C. 3221
 Coiffard, L. 8916
 Coign, M. J. 6725
 Çokuysal, B. 170, 9646
 Çolak, A. 9139, 9141-9143
 Çolakoglu, H. 170
 Colapietra, M. 4912, 5746
 Colda, G. 3800
 Cole, A. L. J. 3356
 Cole, J. C. 1659, 6219, 6231
 Colelli, G. 257, 7526
 Coleman, B. 881
 Coleman, J. S. 5882
 Coletta, A. 1224

- Colin, A. 3958
 Colinas León, M. T. 2583, 5161
 Coll, F. 5097
 Collalto, G. di 9378
 Collar, J. L. 2280
 Collén, J. 10807
 Colletti, J. P. 584
 Collicutt, L. M. 7018
 Collier, D. E. 6117
 Collins, A. R. 6569
 Collins, B. A. 7748
 Collins, C. 5000
 Collins, C. D. 5862
 Collins, D. J. 317
 Collins, G. G. 8434
 Collins, J. K. 4875, 4879, 6656, 9958
 Collins, R. 8922
 Collins, R. J. 868, 5435, 10892-10893
 Collins, S. 3337
 Colls, A. M. 5503-5504
 Colombo, A. 1455
 Colombo, M. 2308
 Colombo, S. L. 6055
 Colombo, B. 305
 Colón-Guasp, W. 4410
 Colorio, G. 5645, 6525, 7558
 Colozzi-Filho, A. 1805
 Colugnati, G. 3053
 Colvin, D. L. 2422
 Colyer, P. D. 5901
 Comai, M. 2876, 9178
 Coman, M. 3938
 Combrink, J. C. 206
 Combrink, N. J. J. 9963
 Côme, D. 1481
 Comité International des Plastiques en Agriculture 1879-1880
 Commandeur, I. P. M. 9430
 Commere, J. 947
 Compton, A. 7001
 Compton, J. A. 3543
 Compton, M. E. 4608, 4907, 6691
 Cona, A. 8610
 Conceição, M. A. F. 7801
 Concha, M. L. 3098
 Concheri, G. 9621
 Condé, B. 515
 Conese, C. 7595
 Confectionery Production 2975
 Cong, P. H. 5671
 Cong PeiHua 5671
 Conkerton, E. J. 8587
 Conkling, M. A. 1488, 3320
 Connelly, M. 515
 Conover, C. A. 5177, 6158
 Conradie, W. 786, 3564, 3573
 Conrod, J. D. 4747
 Conroy, C. 6442
 Conroy, J. 8936
 Consalter, A. 2843
 Considine, J. A. 1642, 2494, 2527
 Consolacion, E. 10874
 Constantin, R. J. 1198, 1713, 10849
 Constantinovici, D. 1531
 Contard, P. 5965
 Conte, E. 7421
 Conti, B. 866
 Continella, G. 845
 Contreras, J. 4190
 Contreras N., A. 10548
 Conway, P. A. 3352
 Conway, W. S. 3805, 4788, 4799, 5628, 6583
 Cook, F. E. M. 2
 Cook, R. M. 5243
 Cooke, D. T. 8615
 Cooke, T. 5529
 Cookman, G. P. 5481
 Coolbear, P. 15
 Cooley, D. R. 9368
 Coombe, B. G. 2095, 2100, 3978, 3991, 5764, 10345
 Coombes, A. J. 4417
 Coombes, S. A. 1878
 Cooper, J. F. 5466
 Cooper, K. M. 8399
 Cooper, P. E. 10549
 Cooper, T. 7636
 Coosemans, J. 3328
 Copel, A. 5738
 Copeman, R. H. 9591
 Coppins, B. J. 6528
 Çopur, Ö. U. 4933
 Coque, M. 6644
 Coquille, J. C. 1286
 Coradeschi, M. A. 2650, 3621
 Corbazz, R. 4126, 5136, 6930, 6952, 8618
 Corbella, J. 4007
 Corberand, T. 4220
 Corbinau, F. 1481
 Corcuff, R. 4119
 Cordeiro, A. 2649
 Cordeiro, A. M. 6358
 Cordeiro, P. J. M. 5341
 Cordes, A. 3335
 Córdoba, P. 5934
 Córdoba Alva, F. 10767
 Cordovilla, M. P. 2241, 5955
 Corelli-Grappadelli, L. 9297
 Corlett, J. E. 10039
 Corley, R. H. V. 9985, 10979
 Cormier, F. 2097
 Corneanu, G. 8321
 Cornell, J. 3942, 9366
 Cornford, C. A. 15
 Cornic, G. 424
 Cornish, K. 5353, 8047
 Corona, N. V. 5193
 Coronel, N. B. 10818
 Corradini, F. 2876
 Corrado, M. E. 6768
 Corral, L. 7637
 Corrales, J. C. 9824
 Correa, D. de M. 8258
 Correa, J. A. 9044
 Corrêa Júnior, C. 8006
 Correia, P. J. 1711
 Correia Guerrero, C. 2160
 Corrigan, V. K. 3193
 Cortelazzo, A. L. 6654-6655
 Cortes, P. M. 7755
 Cortés, S. L. 3659, 5477-5478
 Cortesi, P. 1243
 Cortez, N. 2251
 Cortright, B. D. 6959
 Coscollá Ramón, R. 290
 Cosentino, S. 1455
 Cosgrove, D. J. 3296
 Cossins, E. A. 2258
 Cossio, F. 3843, 9178
 Cosson, J. 3555-3556, 10806
 Costa, C. A. da 3125, 10412
 Costa, G. 219-220, 2959, 3859, 5431, 5665, 7530
 Costa, M. A. C. 5051
 Costa, N. D. 8143
 Costa-Comelles, J. 2610, 2895, 5612
 Costa Rica, Instituto del Café 5476
 Costacurta, A. 8438, 8442
 Costanza, S. 7666
 Costes, E. 1988, 6594, 7516, 8975, 9255, 9261
 Costilla, M. A. 5078, 7313, 10818
 Cota, J. H. 1585
 Côte, F. 30, 3644-3645
 Côte, F. X. 9932
 Cotea, V. 8431
 Coto, D. 10880
 Cotroneo, A. 9163
 Cotter, D. F. 8313
 Cotter, D. J. 3246
 Cotton, C. M. 10033
 Couch, S. M. 2457
 Coudret, A. 2985, 7095
 Couillerot, J. P. 1303
 Coulomb, C. 8579
 Coulomb, P. J. 7520, 8579
 Coupé, M. 946
 Cour, P. 10885
 Courdouroux, J. C. 7022
 Courliat, Y. 3059
 Couteau, A. 10956
 Coutinho, E. L. M. 914, 8147
 Covarrubias, A. A. 3200
 Covatta, F. 10267
 Coviello, R. 9167, 9273
 Coviello, R. L. 9510
 Cowan, A. K. 776-777, 838, 7216
 Cowan, D. S. C. 5574, 5976
 Cowart, D. M. 482
 Cowgill, W. P., Jr. 1127-1128, 4713
 Cowles, R. S. 3490
 Cowley, J. 2400, 3440, 7903
 Cowling, R. M. 1655
 Cox, D. A. 4316
 Cox, D. L. 1092
 Cox, P. 8778
 Cox, P. A. 819, 3446, 8176
 Cox, S. 10011
 Coyne, D. P. 2198
 Coysman, A. 5844
 Cozza, R. 559, 8101
 Crabbé, J. 1970
 Crăcană, A. 8452
 Craciun, C. 9668
 Craenen, K. 9936
 Craft, C. M. 10672
 Craig, W. 4706
 Crail, D. 7879
 Crain, R. C. 6855
 Cramer, H. 1385
 Cramer, M. D. 1449, 4236
 Crandall, P. C. 2784
 Crane, J. H. 5503-5504, 5523
 Crane, R. 9641
 Crans, D. C. 5045
 Cranshaw, W. S. 6237, 9445
 Crassweller, R. M. 3766, 5632
 Cravedi, P. 2964, 3707, 3749, 3820, 3864, 3870
 Cravero, S. 4919-4920
 Crawford, C. S. 4340
 Crawford, M. 2037, 3824, 8378, 10034
 Creamer, N. G. 8661
 Creech, G. 707
 Creed, N. 9159
 Creemers, P. 69, 1088, 8289-8290
 Creller, M. A. 5666
 Črepinšek, Z. 10769
 Crescenciano Saucedo, V. 9896
 Crespan, M. 8442
 Crespi, P. 5841
 Cresswell, G. C. 4663
 Cresti, M. 1657, 6683, 8989
 Crety, C. 8462
 Crèvecoeur, M. 5839
 Criley, R. A. 7115, 7981
 Crimmins, T. J., Jr. 3293
 Cristobal, V. A. 2117
 Critchley, C. 1758
 Črňko, J. 7384
 Crochon, M. 7531, 10259
 Croci, C. A. 2140
 Croft, B. A. 1678, 8908
 Croft, K. P. C. 5911
 Croix, I. la 10697
 Cronin, S. 5568
 Cronje, I. J. 9664
 Crook, S. 2350
 Crosby, J. A. 2856
 Cross, E. 8742
 Cross, J. V. 2844
 Crossan, C. K. 6220-6221
 Crosti, P. 5032
 Croteau, R. 611, 754, 3528
 Crouan, K. 3325
 Crouch, L. S. 5870, 8537
 Crouch, M. 6635
 Crouch, N. R. 5330
 Crouzet, J. 6363
 Crowe, T. G. 4709
 Crowe, T. M. 7487
 Crowley, D. E. 799, 6306, 6754, 7190
 Croxdale, J. 9748
 Crozier, A. 2767, 5482, 7306-7308
 Crozier, L. M. 237
 Cruickshank, B. 1620
 Cruickshank, C. 1620
 Cruiziat, P. 8233
 Cruz, C. 3581, 6980, 8734, 10821
 Cruz, C. D. 7696
 Cruz, G. S. 6347
 Cruz-Hernández, A. 4632
 Csányi, M. 10360
 Cseh, E. 5894-5895, 9509
 Csepregi, P. 10306
 Csillag, A. 7918, 10360
 Csizinszky, A. A. 2299, 5100, 8693
 Csizmadia, G. 7918
 Csoma, E. 9249
 Cuadra, J. G. de la 1721
 Cuba, Instituto Nacional de Ciencias Agrícolas 5541
 Cubeddu, M. 1730, 5387, 6623, 8956
 Cubillo, D. 2294
 Cudney, D. W. 8805
 Cuevas, J. 864
 Cui, G. X. 1696
 Cui, H. 1903
 Cui, H. C. 3950
 Cui, H. W. 1347
 Cui, K. M. 2555
 Cui, Y. N. 1038-1039
 Cui GuoXian 1696
 Cui HongChang 3950
 Cui KeMing 2555
 Cui YiNan 1038-1039
 Cuisset, C. 8444
 Culatti, P. 8295
 Cullen, A. C. 7644
 Cullen, J. 3699
 Cumare S., J. A. 4622-4624
 Cumming, J. R. 5940
 Cummins, J. N. 1937, 2810, 4744
 Cummins, W. R. 6117
 Cunfer, B. M. 2961
 Cunha Sobrinho, A. P. da 4517
 Cunliffe, I. 6263
 Cura, B. del 9924
 Curir, P. 4282
 Čurković S., T. 212, 2846, 6516
 Čurnová, A. 3787
 Currah, L. 4036
 Currie, H. M. 5727
 Curry, E. A. 1101
 Curti-Díaz, S. A. 9893
 Curtis, L. M. 7774
 Curtis, O. F. 5316
 Curtis, P. S. 7427
 Curvelo-Garcia, A. S. 10331
 Curvetto, N. 1383
 Cuzio, O. A. 2140
 Cushman, J. C. 3454
 Cushman, M. A. F. 3454
 Cuteri, A. 2570
 Cutsem, P. van 5140
 Cutting, J. G. M. 797, 808, 810, 817, 3508
 Čutuli, G. 5386
 Ćwiek-Ludwicka, K. 10069
 Cyr, R. J. 6046
 Czapski, J. 1357, 2433, 3436, 6973
 Czarniecka-Skubina, E. 8709
 Czarnik, J. 9353
 Czarnowski, M. 478, 532, 1420, 5116
 Czekalski, M. 722, 8853
 Czosnek, H. 1450
 Czynczyk, A. 4725, 4730, 4754, 4823, 7455, 8249
 Da Câmara Machado, A. 1071
 Da Câmara Machado, M. L. 1071
 Da Costa, C. A. 3125, 10412
 Da Cunha Sobrinho, A. P. 4517
 Da S. Agostini, T. 8110
 Da Silva, A. L. 8485
 Da Silva, A. T. 5705
 Da Silva, C. N. 6021
 Da Silva, D. B. 5542, 7390
 Da Silva, D. J. H. 7696
 Da Silva, E. M. R. 8669
 Da Silva, J. A. 7390

- Da Silva, J. F. 4949
 Da Silva, M. I. V. 6021
 Da Silva, O. R. R. F. 6269
 Da Silva, R. A. 3162
 Da Silva, U. D. 3162
 Da Silva Neto, P. J. 4592
 Da Silva Ribeiro, J. E. L. 5253
 Da Silveira, D. F. 8054
 Daamen, R. A. 5792
 Daayf, F. 1360
 Dabral, P. P. 10010
 Dąbski, M. 5247, 9657
 Dadd, R. 661
 Dadzie, B. K. 2918, 5461, 8116
 Daele, G. van 130, 10135
 Daelemans, A. 3081
 Dag, A. 6413
 Dagar, J. C. 5554
 D'Agliano, G. 7867
 Dagne, E. 5155
 Dagnino, A. 3622
 Dahal, P. 9576
 Dahale, M. H. 2381-2382
 Dahiya, S. S. 2717, 4855
 Dahler, J. M. 8980
 Dahmen, H. 5609
 Dahroug, S. M. A. 9513-9514
 Dai, H. Y. 1063, 1133, 3802, 3889
 Dai, L. S. 8960
 Dai, Q. 5648
 Dai, W. 9104
 Dai, Z. L. 3936, 4516
 Dai HongYi 1063, 1133, 3802, 3889
 Dai Qun 5648
 Dai ZhengLin 4516
 Dai ZiLing 3936
 Daillant-Spinnler, B. 7512
 Daimon, H. 5191
 Dainese, P. 4975
 Daivasikamani, S. 9031
 Daksha Sankhla 5187
 Dal Bó, M. A. 6651
 Dal Rio, P. 6004
 Dalal, K. C. 9858
 Dalal, M. R. 6932
 Dalchow, J. 7648
 Dale, A. 1203
 Dale, S. 2187
 Daley, L. S. 2435
 Daljit Singh 8617
 Dalkılıç, Z. 7555
 Dalla Rosa, M. 9160
 Dalla Serra, A. 1256
 Dalla Vecchia, F. 393
 Dallavalle, E. 9701
 D'Aloisio, V. 1291
 Dalpé, Y. 6748
 Dalström, S. 2448, 6177, 7938, 9762
 Daly, P. 5802
 Daly, P. A. 8313
 Damame, S. V. 8488
 Damann, M. P. 9683
 Damarany, A. M. 463, 2266, 3169, 3227, 4127-4128
 Damarli, E. 160, 9269, 9530
 Damasco, O. P. 9004
 Damato, G. 4069
 D'Amato, G. 9912
 D'Amato, M. 5352, 9912
 Dambre, P. 3413
 Damen, T. H. J. 4687
 Dami, I. 263, 6546
 Dami, I. E. 6693
 Damian, D. 8452
 Damiani, E. 4975
 Damjanović, M. 7842
 Damke, M. M. 7960
 Damodaran, K. 6397
 Damont, J. P. 2059
 D'Amore, R. 747, 7645
 Dampthey, H. B. 8657
 Damrany, A. M. 3228
 Dandik, L. 3552
 D'Andrea, S. 5588, 5645, 6525, 6535
 D'Andria, R. 3940
 D'Angelo, G. 3426
 D'Angelo, V. 2631
 Dangl, S. G. 8443
 Dangler, J. M. 9041
 Dangles, O. 4300
 Danial, L. N. 1338, 4107
 Daniel, E. V. 6391
 Danieli, B. 4282
 Daniells, J. 4572, 4575, 6374, 8117
 Daniels, R. W. 10668
 Danilov, L. G. 4106
 Daningsih, E. 3195
 Danisiewicz, D. 563, 1499
 Dann, M. S. 4940
 D'Anna, F. 4022, 5953
 D'Anna, R. 4720
 Danneberger, K. 9719
 Danneberger, T. K. 5214, 7908
 Dannehl, H. 9453
 Dansereau, B. 3494
 Dantas, J. L. L. 9929
 Daoud, H. G. 10531
 Daoud, M. A. 9514
 Daponte, T. 9146
 Daponte, T. L. F. 41
 D'Aquino, S. 845, 8967, 10903
 Daquinta, M. 7046, 7346
 Daquinta, M. A. 7212
 Dar, M. A. 3747, 10192
 Daran, A. B. M. 8722
 Darange, S. O. 2381
 Darbellay, C. 6555
 Darby, J. 6677
 Darby, P. 6270
 Darjania, L. 1383
 Darma, E. 7009, 7877
 Darné, G. 6723
 Darnell, R. L. 3927, 4880, 7578
 Darnoko 9989
 Darnowski, D. W. 5119
 Darshan Singh 5675
 Darvas, J. M. 1709
 Das, B. C. 7316
 Das, D. K. 3421, 9981
 Das, G. C. 6830
 Das, J. N. 9866
 Das, K. 10992
 Das, N. 9634
 Das, N. D. 5520, 8169
 Das, P. 4411, 8714, 8857
 Das, R. 6733
 Das, R. C. 8788
 Das, S. 3189, 7161, 7167, 8129
 Das, T. 7198
 Das, T. K. 6430
 Das, V. S. R. 2575, 4301, 5144
 Dascaliuc, A. 4737
 Dasciano, R. 6638
 Dasgupta, S. 5279
 Dash, G. B. 9548
 Dashed, S. S. 2910
 Daskalova, T. 8761
 Daskalyuk, A. P. 9176
 Dass, H. C. 2622, 3714, 4671, 6342
 Dassen, H. H. A. 686
 Dastgheib, F. 9475
 Daswir 9989
 Datar, V. V. 3977
 Date, S. 251, 4055
 Datnoff, L. E. 10552
 Datta, A. 5331
 Datta, J. K. 466
 Datta, S. K. 5342, 5922
 Dätwyler, D. 8375, 9311
 Daubeney, H. 2057
 Daubeney, H. A. 1204, 5704
 Dauborn, B. 3295
 Daughtrey, M. 720
 Daughtrey, M. L. 10733
 D'Auliero, A. Z. 9701
 Daulta, B. S. 4855, 9876
 Dauncey, E. A. 2839
 Daussant, J. 538
 D'Auzac, J. 946, 3683, 5508
 Davarynejad, G. H. 9249, 9256
 Dave, A. 7989
 Davenport, J. F. 7599
 Davenport, J. R. 9351, 9354
 Davenport, T. L. 4628
 Davey, J. C. 5855
 David, B. V. 9776
 David, H. 8457
 David, I. 4832
 David, M. 9325
 David, N. R. 449
 Davide, R. G. 6379
 Davidek, J. 6797
 Davidian, H. H. 986
 Davidson, C. G. 3011
 Davidson, M. F. 6730
 Davie, I. J. 10276
 Davie, S. J. 806, 3565, 3570, 7196, 9977, 10967
 Davies, F. S. 5370, 8075
 Davies, F. T., Jr. 32, 1648
 Davies, G. 8459
 Davies, J. S. 377
 Davies, L. J. 4303
 Davies, P. J. 6870, 10504
 Davies, W. J. 5111-5112
 Davis, B. 4572
 Davis, D. C. 6603
 Davis, J. H. 3501
 Davis, J. M. 6031
 Davis, R. D. 367
 Davis, T. A. 6106
 Davis, T. D. 32, 616, 1533, 5187, 5277, 6213
 Dawes, C. J. 6296
 Dawson, D. M. 2009
 Dawson, G. W. 7144, 9498
 Dawson, I. A. 1616
 Day, J. S. 8884
 Day, M. 4001
 Day, M. L. 2896
 Day, R. K. 891
 Day, T. A. 1395, 5973, 8855
 Dayal, R. 11015
 Daymond, A. J. 9425
 De, A. B. 11012
 De, D. N. 6875
 De, P. S. 10801
 De Almeida, A. A. F. 7304
 De Almeida, D. L. 8669
 De Almeida, H. A. 7995
 De Almeida Lima, A. 940
 De Alvarenga, A. A. 8258
 De Amorim, S. M. C. 9062
 De Ancos, B. 931, 9993
 De Andrade, E. R. 2960, 8383
 De Andrade, L. R. M. 7390
 De Araujo, F. D. 971
 De Araújo, J. A. C. 506, 4966
 De Azeveto, P. V. 11024
 De Baerdemaeker, J. 543, 6590, 6951, 9226, 9616, 10047, 10566
 De Barreda, D. G. 1721
 De Barros, F. 2446
 De Bellis, L. 5914, 6833
 De Bon, H. 5802
 De Bruin, H. A. R. 9400
 De Bruyn, M. H. 4333
 De Busscher, R. 6951, 9616
 De Buyscher, G. 10052
 De Cáceres, F. M. 1419
 De Cal, A. 1452, 6018
 De Carvalho, G. A. 6201
 De Carvalho, J. G. 8060
 De Castro, A. 4453
 De Castro, R. 4914, 7605
 De Castro, R. D. 3257
 De Cauwer, I. 9000
 De Faria, A. M. 8955
 De Faria, C. F. 8701
 De Franqueville, H. 1839
 De Giulio, A. 8688
 De Graaf, R. 3500
 De Groene, J. M. 1072
 De Groot, A. 359
 De Groot, J. F. 3272
 De Groot, N. S. P. 625
 De Halleux, D. 4690
 De Herce, C. 6202
 De Hertogh, A. 10038
 De Hertogh, A. A. 4328
 De Iorio, A. F. 8535
 De Jager, A. 1116, 9122, 9206, 10166
 De Jager, E. S. 6309
 De Jong, J. H. 8529
 De Jong, P. D. 5792
 De Jong, T. 1040
 De Kleijn, E. 1010
 De Klerk, G. J. 6547
 De Kok, V. P. H. M. 2145
 De Koster, C. G. 5455
 De Kreijl, C. 751, 2797, 8209, 8676
 De la Cuadra, J. G. 1721
 De la Guardia, M. D. 9285
 De la Plaza, J. 9121
 De la Plaza, J. L. 813-814, 818, 3342, 10074
 De la Presa-Owens, C. 2074
 De la Rosa, A. 3873
 De la Rosa-Ibarra, M. 333, 1586
 De la Torre, C. 2138
 De la Torre-Boronat, M. C. 2074
 De Langhe, E. A. 6377
 De Lapeyre de Bellaire, L. 9013
 De las Rivas, J. 5968
 De Lemos Filho, J. P. 10990
 De León, B. 333
 De Lima, M. G. 10557
 De López Camelo, L. G. 10748
 De Lorenzo, G. 5947
 De Luca, V. 4456
 De Lucia, B. 7025
 De Lumen, B. O. 5035
 De Macedo, A. F. 5488
 De Malach, Y. 3266
 De Martino, A. 1994
 De Medeiros, M. A. 3654
 De Menezes Porto, O. 2600, 7207
 De Michele, A. 2665
 De Micheli, L. 9387
 De Micheli, M. I. 2191, 6802
 De Miguel, M. D. 1238, 3046
 De Miranda, J. C. C. 5542
 De Moel, C. P. 4090, 4097-4098, 7706, 8498
 De Moraes, G. J. 5902
 De Moraes, L. A. H. 2600, 7207
 De Morais, E. A. 5542
 De Nisi, P. 2205
 De Nobili, M. 107, 7746
 De Oliveira, D. 5736
 De Oliveira, D. E. 8924
 De Oliveira, E. 8060-8061
 De Oliveira, F. 5929, 7166
 De Oliveira, I. 7166
 De Oliveira, M. A. S. 5542
 De Oliveira, R. S. 4949
 De Oliveira e Silva, S. 9929
 De Paiva, W. O. 7665
 De Palma, L. 1223, 3755, 8240
 De Paoli, D. 5287
 De Parcevaux, S. 8684
 De Pascale, S. 2285-2286, 3077
 De Pasquale, R. 764
 De Paula, S. V. 6843
 De Paula Herrmann, P. S. 1484
 De Pinho, S. Z. 4867, 10924
 De Pinto, M. C. 8913
 De Prado, R. 7243-7245
 De Proft, M. 442, 5789
 De Proft, M. P. 3123, 5845
 De Putter, H. 10162, 10166
 De Quadros, R. M. B. 10788
 De Queiroz, M. A. 7789
 De Ramallo, N. E. V. 4884
 De Resende, G. M. 3162
 De Resende, M. L. B. 6435
 De Ridder, N. 9020
 De Riek, J. 689
 De Rijck, G. 3413, 3444, 5789-5790
 De Rocker, E. 5730
 De Roock-Holtzhauer, Y. 8916
 De Roover, J. 9457
 De Rosa, S. 8688
 De Ruijter, F. J. 8783
 De Ruiter, H. A. 5169, 9661
 De Salvador, F. R. 4813, 9228
 De Santana, S. O. 7995
 De Sauvage, G. 1073
 De Silva, H. N. 68
 De Silva, K. T. 8183
 De Smedt, V. 7027

- De Smet, K. 3643
 De Souza, M. 8060
 De Souza, P. V. D. 8054, 8068
 De Souza, V. A. B. 7801
 De Souza Gonçalves, P. 3097
 De Stefano, G. 9404
 De Temmerman, L. 9520
 De Troiani, R. 6054
 De Tullio, M. C. 7952
 De Villiers, E. A. 3596
 De Villiers, E. E. 4478, 6309, 10975
 De Villiers, O. T. 8433
 De Visser, C. L. M. 2132, 5823
 De Vogel, E. F. 9760
 De Vos, C. H. R. 3257, 6008
 De Vré, L. 4338
 De Vries, D. P. 4401
 De Vries, H. S. M. 2312, 2318, 5577
 De Vries, I. M. 8528
 De Vries, X. 1857
 De Vroomen, C. O. N. 625
 De Willigen, P. 3273, 8498
 De Wit, C. T. 10039
 De Wit, J. 10133-10134
 De Witte, Y. 4332, 5202
 De Zanche, C. 8478
 De Zoysa, G. M. 2741
 Dearnaley, J. D. W. 10696
 Deasi, U. T. 9971
 Deb, V. 6434
 Deb Roy, R. 6490
 Debata, B. K. 6259, 6284, 8902
 Debergh, P. 4952
 Debergh, P. C. 690, 6163, 7027
 Debi Sharma 10355
 Debicki, R. 1269, 9418
 Debruyckere, M. J. G. 1043
 Decendit, A. 10328
 Deciduous Fruit Grower 7547
 Décima, E. E. 8584
 Deckers, J. A. 162, 5639, 8332
 Deckers, S. 5844
 Deckers, T. 99, 3781
 Deckmyn, G. 4163
 Declerck, S. 4574
 Declerck, V. 3850, 5188
 Decoene, C. 1984
 Decoteau, D. 1409
 Decoteau, D. R. 2300, 6037
 Decourtye, L. 4274
 Dedaldechamp, F. 1239
 Dedieu, G. 1170, 2976
 Dedio, I. 2540
 Deffieux, G. 10328
 DeFrank, J. 4651, 7711, 9105
 Degani, C. 2580
 Degrandi-Hoffman, G. 129
 DeGregorio, R. 7806, 8662
 Degtyarenko, L. V. 5145
 Degtyarev, V. A. 4807
 Dehay, L. 6872, 10508
 Dehrman, F. M. 9992
 Deidda, P. 8957
 Deikman, J. 1698
 Deiser, E. 3700
 DeJong, T. M. 2004, 3878
 Deka, B. C. 10375
 Deka, P. C. 7930, 10712
 Deka, R. K. 2255
 Dekker, C. 4735
 Dekker, J. 9664
 Del Bene, G. 736, 1658, 7420
 Del Busto, A. 1721
 Del Chicca, M. 5755
 Del Cura, B. 9924
 Del Hierro, J. 315
 Del Monte, R. F. 3969
 Del Peloso, M. J. 5929
 Del Río, J. A. 1740, 2618, 5207
 Del Río, L. A. 3671
 Del Río, R. E. 6273
 Del Rivero, J. M. 2895
 Del Tredici, P. 6496
 Del Valle, N. 6314
 Del Zan, F. 4182
 Delabarre, M. A. 2785
 Delabie, J. H. C. 4597
 Delahaut, K. A. 2473
 Delaitre, V. 1232
 Delas, J. 2087
 Delecolle, R. 3000
 Deleporte, P. 4676
 Delgadillo-Sánchez, F. 5999
 Delgado, M. 8351
 Delhomez, N. 1202
 Delhove, G. M. 1814
 Deli, J. 8636
 Della Gaspera, P. G. 5889
 Della Seta, F. 349
 Della Vecchia, P. T. 7839
 Delle Monache, G. 2570
 Delledonne, M. 8442
 Deloire, A. 3958, 6696
 Delpech, P. 3361
 Deltour, J. 6500, 7415
 Deltour, J. M. J. J. 1043
 Delvadia, D. V. 10003
 Delwiche, M. D. 4709
 Demandre, C. 6132
 Demarne, F. E. 5318
 Dembitskii, A. D. 8009
 Dembitsky, V. M. 8823
 Demchak, K. 7573, 7575
 Demène, M. N. 1988, 6602
 Demeter, S. 5969
 Demeulemeester, M. A. C. 3123, 5845
 D'Emilio, A. 6501
 Demir, İ. 7729-7730, 7749, 10488
 Demirkan, H. 1675
 Demirkol, A. 5403
 Demirsoy, H. 2945
 Demmig-Adams, B. 708-709, 4695
 DeMoranville, C. J. 9351
 Den Dubbelden, K. C. 3533
 Den Hartog, G. 1230
 Denardi, F. 8255
 Dencker, I. 226
 Deng, B. X. 10838
 Deng, G. T. 1927
 Deng, J. G. 1974
 Deng, Q. L. 6992
 Deng, R. L. 6258
 Deng, X. D. 6812
 Deng, X. M. 1102
 Deng, X. S. 3893
 Deng, Y. 2672
 Deng, Y. C. 1748, 1759, 1834, 4542, 7337
 Deng GuoTao 1927
 Deng JiGuang 1974
 Deng QingLi 6992
 Deng XiangDong 6812
 Deng XiMin 1102
 Deng XiShi 3893
 Deng YiCai 1748, 1759, 1834, 4542, 7337
 Deng Yong 2672
 Dengler, N. G. 3424
 Denisow, B. 2483
 Dennill, G. B. 7828
 Dennis, F. G., Jr. 71
 Denno, R. F. 723
 Dent, D. 987
 Denyer, K. 2261
 Deorazio, R. 2358
 Deorukhakar, A. C. 5463
 Deosthale, Y. G. 1916
 Deotale, A. B. 2381-2382, 3154, 3390
 Derambure, A. 3912
 Derancourt, J. 2192
 Derbal, S. 7803
 Derbysheva, V. A. 4230
 Dereudde, J. 4570, 5763, 6278
 Dergachev, D. V. 3981
 Dergham, Y. 2339, 3336
 Derie, M. L. 10448
 Derks, F. H. M. 9706
 Dermoeden, P. H. 667-668, 9723
 Derpierre, C. 3212
 Derr, J. F. 8845
 Dery, S. K. 7290
 Desaché, F. 3059
 Desai, A. G. 7994
 Desai, B. B. 9595
 Desai, T. S. 5238
 Desai, U. T. 873-874, 966, 3324, 6608, 7329-7330, 9874, 10939, 10965
 Deshayes, A. 4602
 Deshmukh, P. P. 10832-10833
 Deshmukh, P. S. 7960
 Desjardins, Y. 2059, 10491
 Destain, M. F. 6040
 Desvignes, J. C. 6620
 Dettmann, L. A. 4026, 6746, 10370
 Dettori, S. 3619
 Detzel, P. 243
 Detzner, T. E. 9774
 Deumier, P. 7432
 Deunff, Y. le 1389
 Deutsch, J. 871
 Dev, N. P. 8658
 Devadattam, D. S. K. 7189
 Devadoss, C. 7138
 Devakumar, A. S. 9071
 Devaprasad, V. 5465
 Devarajan, L. 1785
 Devaranavadagi, S. B. 1840
 Devasahayam, S. 3515, 4441
 Devecchi, M. 8743
 Deveci, N. 451
 Dever, M. 2098, 4000, 6698
 Dever, M. C. 2923, 6597
 Devi, J. R. 9499
 Devi, S. N. 9558
 Devi Priya 2503
 Devi Singh 9291, 9876
 Devidé, Z. 3506
 Devienne, F. 454
 Devlin, R. M. 4290, 9492
 Dewani, M. 6571
 Dey, J. K. 10066
 Dey, P. M. 5120, 9923
 Dey, S. 7161
 Dey, S. K. 9079
 Deyton, D. E. 116, 3875, 3923
 Dhaliwal, H. S. 5653
 Dhaliwal, J. A. 1639
 D'Hallewin, G. 7228-7229
 Dhamdhare, S. 4200
 Dhanapal, G. N. 9506
 Dhanda, S. 578
 Dhanellappagol, M. S. 8622
 Dhar, A. K. 5308
 Dhar, P. L. 2545
 Dharmasena, M. 2117
 Dharpure, S. R. 1726
 Dhatt, A. S. 2968, 3583
 Dhawan, P. 5069
 Dhawan, S. R. 5069
 Dhillon, B. S. 1716, 4491
 Dhillon, G. S. 9533
 Dhillon, N. P. S. 1818, 2270, 7312
 Dhillon, R. S. 2591
 Dhiman, J. S. 9438
 Dhingra, H. R. 2396
 Dhingra, R. P. 3984
 Dhopte, A. M. 4617
 Dhua, R. S. 927, 1841, 7345
 Di Benedetto, A. 6124
 Di Benedetto, A. H. 6200
 Di Blasi, N. 10405
 Di Bonito, R. 4692
 Di Candilo, M. 4205, 6004
 Di Carlo, V. 10405
 Di Cesare, L. F. 2631
 Di Collalto, G. 9378
 Di Dionisio, A. 3974
 Di Domizio, N. 7597, 8437
 Di Giovannantonio, C. 5123
 Di Gregorio, V. 582
 Di Lalla, L. 630
 Di Lenna, P. 7921
 Di Leo, A. 1152
 Di Marco, L. 6637
 Di Marco, S. 9413
 Di Minco, G. 2084
 Di Monte, G. 6687
 Di Novella, N. 9754
 Di Paola, M. L. 9527
 Di Stefano, R. 8441
 Di Stilio, V. 8989
 Di Terlizzi, B. 205
 Di Venere, D. 7563
 Diabaté, S. 1839
 Diallo, N. 8614
 Diamantopoulos, V. 7804
 Diamond, C. J. 7599
 Diarra, A. 9814
 Dias, E. G. 10990
 Dias, T. A. B. 8036
 Dias Neto, F. L. S. 2697
 Dias-Tagliacozzo, G. M. 10579
 Díaz, D. H. 8241
 Díaz, T. 294
 Díaz, W. 3659, 5478
 Diaz A., R. 10358
 Diaz Barriga, H. 5217
 Diaz de la Guardia, C. 3620
 Díaz López, R. H. 2735
 Díaz-Pérez, J. C. 2865
 Díaz-Rondero, A. 8830
 Diaz-Sala, C. 5644
 Díaz T., R. 3088, 10389
 Dibble, J. E. 9395, 9510
 Dick, H. 1018
 Dickie, G. A. 6707
 Dickinson, H. G. 4114, 10454
 Dickler, E. 2844
 Dicorato, W. 5056
 DiCosmo, F. 4412, 8913
 Didelot, D. 1207
 Diehl, S. V. 9414
 Diener, U. 10636
 Dienes, G. 9152
 Dieren, M. C. A. van 6536-6537
 Dierend, W. 7474, 8281
 Dietrich, J. 6695
 Diez, C. 10348
 Digby, J. 3457
 Diggle, A. J. 443
 Digiaro, M. 205
 Dijk, C. J. van 5933, 7744
 Dijk, E. 2436, 2441-2442
 Dijk, W. van 3076
 Dijkstra, J. 1205
 Dik, A. J. 3178
 Dikmelik, Ü. 8100
 Dilbagh Singh 7788
 Dilbeck, J. D. 4965
 Dill, D. S. 2835
 Dilley, D. R. 7501
 Dilley, M. A. 80, 6542
 Dillon, M. 28
 Dimasi-Theriot, K. 4831
 Dimitrov, Z. 5770, 6918
 Dimkova, S. 4857, 5683, 9320-9321, 9326
 Dimmitt, M. A. 5224, 7040
 Dimon, B. 2986
 Dimov, I. 6919
 Dimri, B. P. 2528, 6245
 Dinan, L. 4061
 Dincer, I. 1255
 Dinelli, G. 1372
 Dinesh Kumar 11019
 Dinesh Mani 4941
 Ding, A. P. 1070
 Ding, G. X. 3812
 Ding, H. 4502
 Ding, J. K. 2394
 Ding, L. 6455
 Ding, Q. F. 5868
 Ding, S. 8645
 Ding, S. L. 10265
 Ding, W. M. 413
 Ding, W. X. 1323
 Ding, X. D. 1189
 Ding, Z. Y. 4010
 Ding GaiXiu 3812
 Ding Hua 4502
 Ding JingKai 2394
 Ding Lei 6455
 Ding QianFa 5868
 Ding WenMing 413
 Ding XiaoDong 1189
 Ding ZhuoYi 4010
 Dinkova, Kh. 5684
 Dinoor, A. 1765
 Dintchev, T. 5656
 Diolet, P. 2257

- Dionisio, A. di 3974
Dirix, L. 6550-6551
Dirk, L. M. A. 1049
Dirr, M. A. 6236, 7077, 9677
Dirse, A. 6734
Diware, D. V. 2720, 10430
Dixit, B. S. 1496, 1691
Dixit, H. C. 10444
Dixit, S. N. 847
Dixit, S. P. 382
Dixit, S. V. 9678
Dixit, V. 847
Dixit, V. S. 10436, 10446
Dixon, A. F. G. 1963
Dixon, F. M. 325
Dixon, G. R. 8854
Dixon, K. W. 4372
Dixon, R. 5216
Díz, H. 6809
Djaha, J. B. A. 9925
D'Khili, B. 1225, 2080
Do, C. B. 2097
Do Amaral Júnior, A. T. 7696
Do Amarante, C. V. T. 5488
Doan Thanh Nga 5147
Doazan, J. P. 8485
Dobler, G. 1041
Dobrescu, A. 9698
Dobrev, S. 4910
Dobromilska, R. 331, 9488
Dobrusin, Y. 6422
Dobrutskaya, E. G. 5788
Dobrzanaka, J. 1357
Dobrzański, A. 338
Dobrzański, B. 8320
Dobson, H. E. M. 10606
Docampo, D. M. 169
Dodan, D. S. 6019
Dodd, J. C. 9054
Dodd, P. B. 2061-2062
Dodds, G. T. 7800
Dodds, K. G. 3809
Doerge, T. A. 1309, 4091, 4987-4988
Doğan, M. 10260
Doğanay, Ş. 9237
Dogras, C. 253, 256, 459-461
Dohi, M. 5768
Dohino, T. 5168
Dohmae, N. 6073
Döhning, T. 9131
Dohroo, N. P. 1669, 10753
Doi, M. 3411, 8786
Doichev, K. 5606, 5606
Doijode, S. D. 6749, 7320
Dokoozlian, N. K. 1251, 3992
Dolcet-Sanjuan, R. 2020
Dolgacheva, V. S. 2071
Dolgushev, N. V. 9439
Domagala, I. 7689, 10669
Domange, A. L. 1076
Doménach, A. M. 5471
Domergue, R. 9932
Domingo, J. L. 4007
Domingo, R. 7200, 10091
Domínguez, M. 7277
Domínguez, M. R. 7192
Domínguez Gento, P. 7695
Domínguez López, A. 10900
Domínguez-Puigjaner, E. 7277
Domini, M. E. 3255, 3263
Dominici, A. L. 91
Dominikowski, J. 4882, 7581
Domizio, N. di 7597, 8437
Domoney, C. 2256
Domoto, P. A. 4744
Donadio, L. C. 821, 920, 6488, 9973
Donaire, J. P. 10805
Donaldson, D. 9395
Donchev, A. 4910
Doner, L. W. 2124, 10578
Dong, C. T. 189
Dong, D. V. 8736
Dong, F. W. 8032
Dong, H. R. 314, 3405
Dong, J. K. 1102
Dong, M. F. 8032
Dong, S. S. 10756
Dong, W. M. 4160, 6816
Dong, X. G. 6445
Dong, Y. Z. 658
Dong, Z. 1155
Dong, Z. L. 664
Dong CunTian 189
Dong DiaoVa 8736
Dong FangWu 8032
Dong HuiRu 314, 3405
Dong JianKang 1102
Dong MingFeng 8032
Dong ShangSheng 10756
Dong WeiMin 4160, 6816
Dong XingGuo 6445
Dong YunZhou 658
Dong ZhuLin 664
Dong Zun 1155
Donkin, D. J. 808, 817, 3580, 4480, 4484-4485
Donoso, C. 10495
Dorough, C. R. 9985, 10982
Dons, H. J. M. 10727
Donzella, G. 8666
Doogan, V. J. 3614, 4477, 4540, 9900
Doorn, W. G. van 2488, 4427, 6208, 9789, 10607, 10646
Dora, D. K. 7334, 8199, 8560, 9008, 10576
Doraczynski, G. 1991
Doraipandian, A. 1856, 9713
Dorais, M. 529, 8686
Dorantes, I. 3562
Doré, J. C. 9899
Dorey, A. J. 5523
Dori, S. 815, 9058
Dorigoni, A. 3034, 8213
Dorigowi, A. 9178
Dornan, A. P. 386
Dörnenburg, H. 7129
Doronkin, V. M. 7406
Doroshenko, T. N. 2878, 8261
Doroszewski, A. 10070
Doruchowski, G. 8404
Dos Anjos, A. R. M. 9491
Dos Santos, A. C. 2599, 2602
Dos Santos, I. C. 3125
Dosba, F. 8356
Dose, M. M. 6769
Doshi, A. 7174-7175, 10796
Dosoretz, C. G. 2111, 2363
Dotchev, D. 5656, 6554
Dotray, P. A. 9720
Dotsenko, V. A. 9439
Douce, R. 2150, 3119, 3212, 3221, 6872, 8614
Doud, S. L. 7528
Douds, D. 2124
Doughty, J. 4114
Douglas, J. A. 8037
Douglas, M. H. 8037, 10766
Douglas, W. 4118
Doumas, P. 3645, 5690
Doussi, M. A. 9827
Douzals, J. P. 1286
Dowh, A. K. 7886
Downer, A. J. 1031
Downer, J. A. 8805
Downie, B. 1049
Downum, K. R. 7397
Doyle, O. P. E. 2345
Dozier, W. A., Jr. 730-731, 2489, 6209, 6221, 9796
Dradi, R. 3932, 8424
Dragavstev, V. A. 6025
Dragland, S. 4466
Dragoiski, K. 5684
Dragovoz, I. V. 10130
Drake, F. R. 6632
Drake, L. R. 7163
Drake, S. 5677
Drake, S. R. 188, 8336
Dransfield, J. 10035
Dranyi, A. V. 7436
Draoui, B. 48, 4685
Draper, A. D. 1199, 1203
Draper, E. A. 4423-4424
Dreistadt, S. H. 729, 10620
Drennan, P. M. 7041
Dreon, A. L. 1020
Drescher, A. 1612
Dressler, A. J. 1442
Dressler, R. L. 7057, 7060
Drewes, F. E. 1306
Drews, M. 372, 4083, 5315, 6921, 8534
Dreyer, L. L. 5174
Dreyer, S. 8527
Driesche, R. van 7954
Drift, C. van der 3347-3348, 3351, 4268, 6064
Drilleau, J. F. 135
Dring, J. B. 2299
Drinkwater, L. E. 6914
Drishpoun, Y. 3595
Drobný, J. 7586
Droby, S. 1156
Drochioiu, G. 7743
Droomer, L. 10977
Droppa, M. 5971
Drory, A. 3385
Drosos, N. 3248, 7783
Drossopoulos, B. 8390
Drossopoulos, J. B. 3624, 8391-8392
Drost-Karbowska, K. 875
Drouet, G. 6717
Drozdz, S. N. 5872, 9517
Druart, N. 1302
Druart, P. 90, 3817, 8331
Druchek, E. V. 7742
D'Souza, L. 4425
Du, F. H. 3896
Du, G. Q. 2987
Du, G. W. 8995
Du, H. F. 36
Du, J. J. 4818
Du, P. 5674
Du, S. L. 4130, 4136
Du, X. M. 9181
Du, Y. C. 7740
Du, Y. R. 7206
Du FengHua 3896
Du GuangWei 8995
Du GuoQiang 2987
Du JunJie 4818
Du Ping 5674
Du Plessis, D. 5613
Du Plessis, S. 5932
Du Plessis, S. F. 4500
Du Plooy, C. P. 788
Du Puy, B. 8170
Du Puy, D. J. 10703
Du Sautoy, N. 3571
Du ShengLi 4130, 4136
Du Toit, A. P. 55, 804, 1753, 10964
Du Toit, J. 3741-3742
Du XueMei 9181
Du YuanRong 7206
Dua, S. 7942
Duan, B. Y. 1826
Duan, J. J. 118
Duan, J. X. 4383
Duan, L. X. 961
Duan, M. Y. 2676
Duan, S. Q. 10250
Duan, X. M. 3936
Duan BingYuan 1826
Duan JianXiong 4383
Duan MinYan 2676
Duan ShuQuan 10250
Duan XinMei 3936
Duarte, I. B. 3551
Duarte, J. de O. 7801
Duarte, P. J. 10821
Dubbelden, K. C. den 3533
Dube, S. 9601
Dubey, J. K. 3338
Dubois, J. 360, 4980
Dubois, L. A. M. 4401
Dubois, T. 360
Dubos, B. 10339
Dubouzet, J. G. 2409
Dubravec, K. 7724
Dubravina, I. V. 2878
Dubrovsky, J. G. 8829, 9744
Duc, A. 6613
Duc, A. le 9805
Duc, G. 5060
Duce, P. 8957
Duchemin, M. C. 8861
Duchesne, I. 6233
Duckham, S. C. 295
Ducos, J. P. 4602
Ducouso, I. 5689, 5692
Ducroquet, J. P. H. J. 8383
Ducruet, J. M. 3733
Dudeck, A. E. 5209, 8799
Dudley, N. S. 5524
Dudley, R. L. 2311
Dufault, C. P. 2322
Dufault, R. J. 1409, 9473
Duffy, P. 1580
Dufour, L. 5106
Dufour, M. 5475, 6400
Dugger, W. M. 5059
Duhan, J. C. 340
Duke, E. R. 4692
Duke, J. A. 6530
Duke, S. H. 5979
Dula, B. 8629
Dulinafka, G. 284, 2847, 3060
Dullahide, S. R. 2894
Dulov, S. 6918
Duman, I. 10408
Dumanoglu, H. 144, 9263
Dumbroff, E. B. 6027
Dumet, D. 4570
Dunan, C. M. 5819, 9442
Dunbar, B. 2255
Duncan, E. J. 4578, 6388
Duncan, G. 391
Duncan, L. W. 8073
Duncan, R. 1733
Duncan, R. A. 5759, 5897
Dündar, Ö. 147, 8056
Dunemann, F. 3761
Dunham, S. 7576
Dunkelblum, E. 2901
Dunlap, J. R. 4238, 9969
Dunley, J. E. 7536
Dunn, D. E. 6231
Dunn, J. H. 3445
Dunstone, R. L. 4469, 9862
Dupille, E. 5575, 6092, 7428
Dupuch, M. J. 2443
Dupuis, D. 7623
Dupuy, C. 5448
Duque, C. 3635, 8172
Duque, S. 2678
Duque de Cela, M. 2280
Duque Vallejo, A. 7017
Dura, S. 10587
Durairaj, C. 7533
Duraismy, V. K. 7273, 8717
Durán, A. 4499
Durán, J. M. 315, 4986
Durán-Vila, N. 6314
Durchan, M. 5024
Dureja, P. 5871
Duren, M. van 6057
Durham, R. E. 3770
Duriat, A. S. 474
Đurić, B. 2925
Đurić, G. 2028, 8238
Düring, H. 6714, 8479-8480
Durkin, D. J. 9791
Durrant, J. R. 446
D'Urso, G. 9504
Durso, N. A. 6046
Dursun, E. 6596
Dürst, N. 8766
Dusky, J. A. 1308, 9458
Dussert, S. 2690
Dussi, M. C. 3888
Dutta, P. 8089, 8749
Dutta, P. K. 8048
Dutta Ray, S. K. 10392
Duval, M. 3212, 10508
Duval, Y. 4570
Duvénage, J. A. 1755, 4478-4479
Duyens, M. E. 10670
Düzaman, E. 10408
Dwarakan, P. 7943
Dwivedi, A. K. 8088
Dwivedi, R. N. 2596
Dwyer, P. J. 5290
Dyadchenko, O. K. 1936
Dyankov, D. 9183, 9189
Dybas, R. A. 1092
Dyduch, J. 5143
Dyke, M. J. 1617
Dyško, J. 9582

- Džamić, R. 3051
 Dzerefos, C. M. 4261
 Dzhigadlo, E. N. 4810
 Dziamba, S. 5891
 Eakes, D. J. 730-731, 2489, 6209, 6211, 6220-6221, 9795-9796
 Eames, A. 3
 Eapen, S. J. 7986
 Eardley, C. D. 805, 10963
 Early, J. W. 8877
 Eason, G. 9962
 Eason, J. R. 4338
 Eastman, C. E. 8496
 Eaton, G. W. 2052
 Eaton, L. J. 2049
 Ebadi, A. 5764
 Ebd-El-Kader, A. M. M. 9979
 Ebel, F. 10657
 Ebel, R. C. 1077
 Ebert, G. 2808, 7258, 8207
 Ebida, A. I. A. 7270
 Ebinger, J. 9806
 Eccher, T. 2884, 7515
 Eccher Zerbini, P. 2799, 4703, 7562, 9298
 Eccleston, V. S. 1710
 Echeverri, F. 4583
 Echeverría, E. 5401, 5837
 Eck, N. 2441-2442
 Eck, N. D. 2436
 Eckard, K. J. 2408
 Eckert, P. 7497
 Eckstein, K. 3647, 4577, 7272, 9933
 Economou, A. S. 4831
 Ector, B. J. 6725
 Edan, Y. 1744, 5581, 6422, 6948
 Edashige, Y. 6047
 Eddy, R. T. 1549
 Edelman, A. M. 2187
 Edelman, J. R. 8107
 Edelman, M. 6027
 Edelstein, M. 2701, 8573
 Eder, R. 3029
 Edin, M. 1129, 7456
 Edmonds, G. H. 8707
 Edrisha, M. E. 10556
 Edson, C. E. 3997-3998
 Edwards, A. 10639
 Edwards, C. A. 8494
 Edwards, G. E. 8821
 Edwards, J. P. 5107
 Eeuwens, C. J. 5501
 Effenberger, F. 5223
 Effendi, S. 2684
 Egashira, H. 2292
 Egea, C. 4522
 Egea, J. 9251
 Eggens, J. L. 8808
 Egger, E. 3056, 3967, 9412
 Eggum, B. O. 9435
 Egilla, J. N. 1648
 Egmont-Florian, D. van 1036
 Egozi, H. 9702
 Eguchi, F. 2354
 Eguchi, H. 5848
 Ehara, H. 5163
 Ehlensfeldt, M. K. 1199, 8419
 Ehlers, D. 2572, 4420
 Eichel, J. 8914
 Eichmann, H. 4111
 Eichhorn, K. W. 2094
 Eicker, A. 2347
 Eid, A. M. 6634
 Eid, M. A. 5437
 Eijnde, J. van den 10136
 Eiker, A. 3365
 Eilertsen, S. 7873
 Eira, M. T. S. 8036
 Eiras-Dias, J. E. 8439
 Eischen, F. 10937
 Eisenhut, R. 1503, 3359
 Eisenstein, D. 9901
 Eisikowitch, D. 6413
 Ejiri, S. 9632
 Ekanayake, I. J. 3642
 Ekanayake, P. B. 7357
 Ekelund, L. 1010, 1274
 Ekman, J. S. 8936
 Eksteen, G. J. 812, 4481, 4487
 Ekstein, I. 1450
 El-Abd, S. O. 6026, 9501-9502, 9965
 El-Adgham, F. I. 8708
 El-Ashal, H. A. 2557
 El-Assar, N. 9839
 El-Awady, M. N. 6950
 El-Azizi, M. M. 8781
 El-Bahr, M. K. 9577, 9607
 El-Beltagy, A. S. 2226, 5892, 6026, 6056, 9581
 El-Beltagy, M. 6026, 9965
 El-Borollosy, M. A. 5954
 El-Buluk, R. E. 918, 9970
 El-Demerdash, A. M. 9979
 El-Demerdash, M. E. 5954
 El-Desoki, E. R. 5054, 5104
 El-Farra, S. A. 10305
 El-Gengaihi, S. E. 8029
 El-Ghawawi, M. 9399
 El-Ghazaly, G. 10873
 El-Hadi 9399
 El-Haloui, N. E. 2152, 8524
 El-Hamalawi, Z. A. 3572
 El-Hodairi, M. H. 10327, 10349
 El-Hydri, M. 6916
 El-Kassas, S. E. 4518-4520, 4562-4563
 El-Koliev, M. M. A. 4040
 El-Mahdy, T. K. 3632-3633
 El-Mardi, M. O. 10874
 El-Masry, M. H. 7145
 El-Masry, R. R. 5054
 El-Mniai, E. H. 5404
 El-Mokadem, H. 1557
 El-Morsy, A. A. 10835
 El-Naga, S. A. A. 8625
 El-Namer, S. E. 10575
 El-Otmani, M. 1738, 2619, 4705, 4801, 5630, 6343, 6837, 7221, 7394
 El-Oualidi, J. 10802
 El-Sabroun, M. B. 1066, 1159, 1714, 1954
 El-Saeid, H. M. 6297, 7779, 8503, 9501, 9826, 9965
 El-Saka, M. 7886
 El-Salam, A. H. A. 2979
 El-Samnoudi, I. M. 9898
 El-Sayed, N. H. 8896
 El-Sayed, S. T. 394, 5881
 El-Sebay, Y. 6346
 El-Sese, A. M. 3632-3633, 4518-4520, 4562-4563
 El-Shal, M. A. 8708
 El-Shamma, H. A. 9570
 El-Shazly, S. M. 1066, 1159, 1714, 1954
 El-Sheikh, T. M. 5992
 El-Sherbeny, S. E. 6297, 9842
 El-Shiekh, A. 5708
 El-Shiekh, A. F. 4839, 7224
 El-Shinawy, M. Z. 6056
 El-Siddig, K. 106, 6560, 6562
 El-Tarras, A. E. 8118
 El-Telwany, K. A. 9494
 El-Tinay, A. H. 918, 9970
 El-Zawahry, A. M. 463, 3251
 El-Zayat, M. M. 5313
 Elad, Y. 1048, 4404-4405, 7097
 ElBalla, M. 5132
 Elbar, Y. 5952
 Elder, P. 7806
 Elema, E. T. 4359
 Elewa, I. S. 5313
 Elewa, M. A. 10746
 Elhabiri, M. 4300
 Elia, A. 4188-4189
 Eliades, G. 8078
 Elisha, S. 3593
 Elkin, I. 9702
 Elkins, C. B. 6508
 Elkins, R. B. 9330
 Elkner, K. 504
 Elle, L. A. 9439
 Elleman, C. J. 10454
 Ellert, M. W. 7032
 Ellies, A. 1402
 Ellington, J. J. 2979
 Elliott, G. C. 7088
 Elliott, K. C. 6569
 Elliott, M. L. 4351, 4692
 Elliott, N. C. 987
 Elliott, T. J. 1881, 3346
 Ellis, B. E. 8028
 Ellis, M. A. 3788, 6686
 Ellis, P. R. 3315
 Ellis, R. 8229
 Ellis, R. H. 1262, 9425
 Ellis, W. 8070
 Ellison, A. M. 9759
 Ellnain-Wojtaszek, M. 875
 Elmeskaoui, A. 2059
 Elmore, C. L. 9330, 9395
 Elmstrom, G. W. 4608
 Else, M. A. 5111-5112
 Else, M. J. 8412
 Elsner, W. 3700
 Elthon, T. E. 449
 Eltoukhy, A. A. 9459
 Elzenga, J. T. M. 2250
 Emam, A. 9513
 Embree, C. G. 4744
 Emig, I. 1593
 Emmett, R. W. 7626
 Ende, W. van den 7682, 9457
 Endo, H. 1438
 Endo, K. 8663
 Endo, M. 2141
 Endou, T. 214
 Enei, H. 9632
 Engalycheva, S. S. 5893
 Engel, B. A. 6423, 7315
 Engel, G. 2913
 Engeland, K. 4149
 Engelhardt, U. H. 6459
 Engelke, M. C. 666, 4353
 Engelmann, F. 4570
 Engle, M. E. 7974
 Engleman, E. M. 4643
 Engler, A. 7385
 Englert, G. 4329
 English, J. T. 2044
 Engstrom, L. 6476
 Enikeev, K. M. 10582
 Enkegaard, A. 6084
 Enns, J. M. 1203
 Enomoto, K. 2403
 Enriquez, S. 5931
 Enserink, C. T. 10440
 Eom, J. 6050
 Eppendorfer, W. H. 9435, 10362
 Epstein, E. 903
 Erard, P. 6
 Eraud, C. 6967
 Erbanova, P. 3355
 Ercan, N. 5222
 Erciş, A. 2420
 Ercişli, S. 9238, 10172
 Erciyes, A. T. 3552
 Erdmann, V. A. 428-429
 Erdoğan, D. 6596
 Ereifej, K. I. 10537
 Eremin, G. V. 2981, 9324
 Erez, A. 783, 10474
 Ergun, M. E. 7463
 Erickson, M. C. 482
 Eriksson, Å. 1907
 Eriş, A. 171, 4933
 Erkan, M. 5403
 Ermakov, E. I. 5355
 Ermolova, V. P. 6063
 Erner, Y. 4523
 Erningpraja, L. 9987
 Ernst, M. 1304, 4073, 4983
 Ernst, R. 704
 Eromosele, I. C. 8045
 Errea, M. I. 8934
 Errington, N. 923
 Ertan, N. 7920
 Ertl, J. R. 5030
 Erviö, L. R. 320
 Erviö, R. 320
 Erwin, J. E. 6097
 Eryüce, N. 170, 863
 Es-Safi, N. 309, 3996, 9405
 Escalant, J. V. 30, 3644, 9932
 Escalante, E. E. 2692
 Escalona, M. 7046, 7210, 7214, 8074
 Eschbach, J. M. 5509
 Escher, F. 9225
 Escribano, J. 8538
 Escribano, M. I. 8109, 8999, 9924
 Escriche, A. 4522
 Escriche, A. J. 8081
 Esekia, I. 1329
 Esendal, E. 956
 Esensee, V. 321
 Eshdat, Y. 834
 Eshel, A. 5537, 6415
 Eshel, G. 839
 Eshel, I. 790
 Eşitken, A. 9238, 10181
 Eşiyok, D. 9563, 10408
 Eskes, A. B. 4594, 10918
 Eskinja, I. 9860
 Eskinja, M. 9860
 Eskins, K. 7683
 Eskridge, K. M. 1409
 Espada, J. L. 1925
 Esparza, D. 6426
 Esparza Martinez, J. H. 2283
 Espejo, J. A. 10513
 Espin, J. C. 10144
 Espinas, E. 7604
 Espinha, I. G. 5612
 Espinosa, R. 3263, 4959
 Espinoza, H. R. 3668
 Espinoza E., J. R. 10945
 Esriche, A. J. 10862
 Essassi, E. M. 309, 3996, 9405
 Esselen, L. 5362
 Esser, J. E. 2242
 Estabrooks, E. N. 237
 Estaún, V. 6931
 Esteban, E. 2260
 Esteban, R. M. 304, 7541, 10302
 Estela, M. 8428
 Esteller, M. V. 4499
 Ester, A. 3079
 Esterhuizen, J. M. 10690
 Esteve, M. J. 2264, 4184, 5068
 Estiarte, M. 2277, 3237
 Estrada, A. B. 9054
 Eta, M. 6359
 Etherton, B. 5940
 Eti, S. 9259-9260
 Etienne, H. 30, 2742
 Etissa, E. 7142
 Eto, M. 7685
 Etoh, T. 2409, 10652
 Eunert, S. 3023
 European and Mediterranean Plant Protection Organization 8471, 8953, 10366
 Evangelista-Lozano, S. 10888
 Evans, A. 9622
 Evans, A. S. 7004
 Evans, F. 3330
 Evans, J. R. 5576
 Evans, M. C. W. 5969
 Evans, R. 6581
 Evans, R. G. 1077
 Evans, R. Y. 7961
 Evelo, R. G. 10075
 Evenhuis, A. 1673, 8901
 Evensen, K. B. 7098
 Evenson, K. J. 4028
 Évéquoz, N. 6557
 Everaarts, A. P. 4090, 4097-4098, 7706, 8498
 Everard, J. D. 3621
 Evered, C. E. 3334, 3343
 Evseeva, O. A. 6678
 Eyk, J. H. van 795
 Eymar, E. 1621, 3478
 Eynard, I. 1218, 8446
 Eyssen, R. 3800
 Ezaki, K. 252
 Ezawa, T. 6119
 Ezz, T. 6721, 7201, 7215, 7220, 7318
 Ezz, T. M. 7317
 Ezzahouani, A. 3954
 Fabbri, A. 2021, 2643, 5443
 Fabbri, B. 8094
 Faber, B. 799, 6303, 6306, 7190
 Faber, B. A. 1031

- Fabi, R. 3868
 Fabre, R. 7802, 8665
 Fábregas, J. 3544
 Fabrégue, C. 6820
 Fabreguettes, J. 2809
 Facchetti, S. 2365
 Faccia, M. 4979
 Fadda, G. 6326
 Fadel, H. M. 3987
 Fadón, B. 2274, 4185
 Faedi, W. 2055, 3932-3933, 4883, 8424
 Fager, K. 4940
 Fagerberg, W. R. 10683
 Fäh, J. 6349
 Fahim, M. M. 5732
 Fahlbusch, B. 6591
 Fahmy, B. 7886
 Fahmy, H. A. 6332
 Faid, M. 2630
 Faik, A. 6654-6655, 8406
 Failla, O. 2876, 3042-3043, 3861, 3974, 6719
 Faingersh, E. 1992
 Fairchild, E. D. 6632
 Faiz, S. M. A. 5101
 Faiz Mohsin 9830
 Faiziev, Sh. M. 5893
 Fakhri, M. N. 8753
 Fakir, M. S. A. 4132
 Falandysz, J. 563, 1499
 Falavigna, A. 5063, 7762
 Falcetti, M. 1256, 3043, 3054
 Falchieri, D. 279
 Faleri, C. 1657
 Falk, B. W. 1817
 Falk, S. P. 281, 1243
 Fallahi, E. 2102, 7473
 Fallavier, P. 7417, 9060
 Fallen, G. 2708
 Fallico, B. 2626
 Fallico, R. 8695
 Fallik, E. 475, 5127, 6947-6948, 10159
 Falque, M. 4594, 10918
 Falqui, A. 3619
 Faltin, Z. 834
 Faltonson, R. R. 584
 Famiani, F. 211, 2644, 6645
 Fan, H. 2912
 Fan, H. M. 4388
 Fan, J. S. 6578
 Fan, K. H. 10612
 Fan, L. Z. 1927
 Fan, S. X. 9546
 Fan, W. G. 4403
 Fan, X. F. 3812
 Fan, X. J. 10197
 Fan, X. T. 1930
 Fan, Y. 477
 Fan, Y. G. 5643
 Fan, Y. Q. 7090
 Fan, Z. W. 6445
 Fan, Z. X. 4140
 Fan HanMing 4388
 Fan Hui 2912
 Fan JinShuan 6578
 Fan KuanHua 10612
 Fan LiZhang 1927
 Fan ShuangXi 9546
 Fan WeiGuo 4403
 Fan XiaoFeng 3812
 Fan XiouJing 10197
 Fan XueTong 1930
 Fan YuQing 7090
 Fan ZhiWei 6445
 Fang, D. 1422
 Fang, D. H. 955
 Fang, D. Q. 846, 7781, 8937
 Fang, G. B. 2758
 Fang, J. B. 6619
 Fang, J. G. 3488
 Fang, L. X. 7234
 Fang, M. N. 3214
 Fang, S. S. 10831
 Fang, W. 1898
 Fang, X. H. 11008
 Fang, X. J. 1349, 3163, 4143
 Fang, Z. W. 3112
 Fang, Z. X. 10744
 Fang DeQiu 7781, 8937
 Fang GuoBin 2758
 Fang JinBao 6619
 Fang LiXin 7234
 Fang MinNan 3214
 Fang XingHan 11008
 Fang XiuJuan 3163, 4143
 Fang ZhaoXi 10744
 Fang ZhiWei 3112
 Fangmeier, A. 1377-1378
 Fanizza, G. 1229, 4069
 FAO Plant Protection Bulletin 8123
 Faoro, I. D. 8370
 Farag, I. A. 2122, 2266, 2321, 3169, 3228, 4038, 4096, 5820
 Farago, M. E. 9935
 Fardossi, A. 3032, 9391
 Fare, D. C. 707, 6105
 Fares, C. N. 5954
 Faretra, F. 1229
 Farghali, M. A. 463, 2122, 2321, 3227, 3249, 4096
 Fári, M. 1412, 10360
 Faria, A. M. de 8955
 Faria, C. F. de 8701
 Faria, R. T. 7059
 Farias, J. R. B. 5044
 Farih, A. 1717, 10823
 Fariña, A. 10495
 Farina, E. 4276, 4361
 Farkas, J. 10539
 Farkas, K. 1960
 Farkas, T. 5971
 Farkašová, M. 10309
 Farnham, M. W. 1327
 Farnon, J. 2839
 Farooq, S. 3398
 Farooqi, A. A. 3545, 9865
 Farooqui, A. 2159
 Farrag, M. M. 4039
 Farrag, R. M. 10449
 Farre, J. M. 2582
 Farré, R. 2264, 4184, 5068
 Farrell, J. 9342
 Farrell, J. A. 987
 Farris, N. A. 9831
 Fasce, D. 2308
 Fasidi, I. O. 6078-6079
 Fassbender, H. W. 2681
 Fasseas, C. 7248
 Fast, G. 2786
 Fatel, K. 5200-5201
 Fatemi, Z. 430
 Fatima Nassif 2806
 Faucci, M. T. 3617
 Faure, J. D. 4312
 Faure, O. 9384-9385
 Faure, R. 742, 8763
 Fauré, X. 2588
 Faust, M. 29, 3829
 Fauth, M. 5915
 Fava, P. 2969
 Favar, J. C. 8712
 Fayad, T. A. 4784, 6558
 Fayek, M. A. 4784, 6558
 Favez, K. A. 8606
 Fazli Mabood 684-685
 Fazli Manan 10217
 Fazli Qadir 3858
 Fazliev, F. N. 7659
 Fazzari, A. 3670
 Feazel, J. I. 1198
 Feddoui, E. 6343
 Fedina, I. S. 6868
 Fedorov, A. K. 328
 Feely, W. F. 8537
 Feher, M. 3362
 Fei, X. N. 1562, 10558
 Fei, X. Q. 4561
 Fei XueNan 1562, 10558
 Fei XueQian 4561
 Feierabend, J. 9505
 Feigin, A. 1448
 Feintuch, D. 871
 Feito, I. 2988, 10256
 Fekete, G. 6042
 Felaliev, A. S. 5583
 Felczyński, K. 9474
 Feldmann, F. 877
 Feleafel, M. N. 8708
 Felicioli, R. 352
 Felipe, A. 9285
 Felipe, A. J. 1925, 3756, 10090
 Félix, A. I. L. 9929
 Félix, L. 7338
 Felix, M. F. 1375
 Felker, F. C. 7683
 Felland, C. M. 2962
 Feller, C. 4015-4016
 Fellingham, A. C. 6877
 Fellman, J. K. 10094
 Fellner, M. 5781
 Fellows, J. R. 1339, 5008, 5861
 Felsot, A. S. 161
 Feng, D. Z. 5652, 10207
 Feng, G. F. 1953
 Feng, H. 3136
 Feng, J. Q. 5293
 Feng, L. 8543
 Feng, S. Q. 546, 2223, 3895, 3897
 Feng, S. Z. 8369
 Feng, Y. X. 5673
 Feng, Z. Q. 8340
 Feng DeZhi 5652, 10207
 Feng GuoFa 1953
 Feng Hui 3136
 Feng JinQuan 5293
 Feng Liu 8543
 Feng SheZhang 8369
 Feng ShuangQing 546, 2223, 3895, 3897
 Feng YueXiu 5673
 Fenlon, J. S. 5103, 5846
 Fenner, T. L. 10922
 Fenton, B. 7567
 Fenwick, G. R. 8554
 Ferary, S. 4027
 Ferenczy, A. 8775-8776
 Fereol, L. 5204
 Fereres, A. 2280
 Ferguson, C. M. 9484
 Ferguson, D. J. 9750
 Ferguson, I. B. 2584, 4790, 4798, 5878, 7494
 Ferguson, J. J. 3594, 5373, 5378
 Ferguson, L. 3901
 Ferjani, E. 8591
 Fermanian, T. W. 8806
 Fernandes, S. C. S. 8955
 Fernández, B. 2988, 10256
 Fernández, C. 1132, 5657
 Fernández, F. 3275, 4959, 5479
 Fernandez, G. C. J. 3246
 Fernandez, G. E. 7570
 Fernández, J. L. 7569
 Fernandez, M. D. 1297
 Fernández, N. 4938, 5002, 5134
 Fernandez, R. T. 94
 Fernández A., A. 5134
 Fernández de La Paz, N. 4938, 5002, 5134
 Fernández-Escobar, R. 4548
 Fernández Hernández, J. 4336
 Fernández-López, J. 6604-6605, 10196
 Fernández-López, J. A. 303, 4003
 Fernández Militino, A. 8624
 Fernández-Trujillo, J. P. 9301
 Fernando, T. H. P. S. 9077
 Fernando, W. A. R. N. 4037
 Ferragut, F. 2895, 4626, 5612
 Ferran, A. 6202
 Ferrante, M. 8695
 Ferrão, J. E. M. 6471
 Ferrara, E. 5751, 6356
 Ferrara, G. 1615
 Ferrarese, L. 5080, 5663
 Ferratto, J. 1444, 4212
 Ferratto, J. A. 3723, 4212, 4294
 Ferree, D. C. 81, 86, 1939-1940, 3788, 4741-4742, 4745, 4751, 6686, 7469
 Ferreira, A. 1375
 Ferreira, D. I. 4333
 Ferreira, J. F. S. 5335
 Ferreira, L. R. 4949
 Ferreira, M. D. 4895
 Ferreira, M. E. 1375
 Ferreira, S. G. 3561
 Ferrer, H. 6426
 Ferrer, M. A. 1419
 Ferreras, J. M. 2709
 Ferreres, F. 2260
 Ferrero, A. 1949
 Ferrero, M. L. 2138
 Ferris, R. S. B. 1784, 5459, 6375, 7275, 9939
 Ferris, S. 1780
 Ferrón, L. 3544
 Ferroni, G. 7602
 Ferwerda, F. H. 1660
 Fethi, J. 4801
 Fett, W. F. 2311
 Feucht, W. 2815, 5618, 10089
 Feuerhahn, B. 5269
 Feussner, I. 5014, 5912, 7732
 Feyereisen, R. 8522
 Feyziev, Y. M. 5970
 Fiala, J. L. 988
 Fichera, G. 3995
 Fici, S. 7969
 Fidalgo Sosa, B. 4192
 Fidanza, M. A. 667, 9723
 Fideghelli, C. 3853
 Fielder, S. 1980
 Fierman, T. 1422
 Fieuw, S. 5961, 6854
 Figueiredo, P. 4300
 Figueredo, C. 5993
 Figueroa S., H. 1402
 Filella, I. 1912, 4243
 Filho, W. R. 9192
 Filipenya, V. L. 4881
 Filipov, I. 9278-9279, 9281
 Filippini, M. F. 1301
 Finch, S. 1005, 3078
 Finger, F. L. 3086, 6937
 Fini, P. 4719, 6629
 Fink, M. 5003
 Finlay, A. R. 3391
 Finn, C. E. 2045-2046
 Fioravanzo, J. C. 8145
 Fiorentini, R. 352, 10153
 Firmin, L. 4602
 Firm, R. D. 3457
 Firrao, G. 4774
 Firth, A. C. 9484
 Firth, D. J. 5585
 Fischbach, M. 7648
 Fischer, B. B. 9395, 9510
 Fischer, D. C. H. 2541
 Fischer, K. 10506
 Fischer, M. 142-143, 989, 2023, 2930
 Fischer, P. 3473
 Fisher, P. R. 6129, 9704, 9780
 Fisher-Fleming, B. 9270
 Fishman, M. 871
 Fishman, S. 2838, 7781
 Fitzpatrick, G. E. 5296
 Fiume, F. 470, 3241
 Fivaz, J. 1750, 1752, 2634, 9976, 10969
 Fjeld, T. 628, 9792
 Fjellstrom, R. G. 2984
 Flach, M. 973, 9113
 Flanagan, M. 3464
 Flannigan, D. T. 1052
 Flechner, A. 3114
 Flechtmann, C. H. W. 1619
 Fleckenstein, J. 7713
 Flegmann, A. 10993
 Flegmann, A. W. 2740, 9080
 Fleischer, S. J. 4940
 Fleitas, O. O. 9824
 Flémal, J. 1801
 Fletcher, J. D. 9599
 Fletcher, J. S. 439
 Fletcher, R. A. 8590
 Fleurat-Lessard, P. 2511
 Fleurence, J. 1695, 5356
 Fleuriot, A. 2849
 Flint, M. L. 10620
 Floc'h, J. Y. 3555
 Floh, E. I. S. 8826
 Flohr, R. C. 5177
 Flora, L. L. 6248
 Flora and Fauna 4655
 Florack, D. E. A. 10728
 Flore, J. A. 3997-3998, 9337
 Flores, R. 7243-7244

- Flores, Y. 8677
 Flores-Carreón, A. 6987
 Florin, P. 5662
 Florin, B. 2698, 4602
 Florissen, P. 8936
 Florkowski, W. 7423
 Floss, H. G. 2544
 Flückiger, C. R. 4946
 Flüge, U. I. 10506
 Flurkey, W. H. 435
 Flynn, R. P. 2162
 Fodor, F. 5894-5895, 9509
 Fogher, C. 5752, 6705
 Fogliano, V. 6766
 Foguet, J. L. 5360, 6300
 Fokkema, N. J. 339
 Folchi, A. 1165, 1989, 7524
 Folefack, C. 3556
 Folegatti, L. 9109
 Folkers, W. 1662
 Follas, G. 9482
 Follett, J. M. 2522, 8037
 Follmann, H. 4062
 Folóni, L. L. 6324
 Foltan, H. 6387, 7283
 Fomina, V. I. 5148
 Fondio, L. 1837
 Fong, C. H. 7353
 Fong, W. P. 10791
 Fong ChianHoi 7353
 Fonseca, E. B. A. 8060
 Fonseca, M. 9824
 Fonseca, N. 5086
 Font, G. 2612
 Fontana, A. 5151
 Fontanari, M. 83
 Fontanazza, G. 2651, 6360
 Fontanillas, R. 8524
 Fontenelle, G. B. 9051
 Fonteno, W. C. 9655-9656, 9663
 Fontes, P. C. R. 7185-7186, 7805, 8532
 Forbus, W. R. 5668
 Ford, M. G. 5481
 Fordham, I. M. 5558
 Fordham, R. 502, 5782
 Forero, C. Y. B. 4579
 Forlani, M. 8353
 Forrest, R. 5947
 Forster, C. 448
 Forster, B. 10338
 Forster, P. I. 5235
 Förster, S. 5223, 6448
 Forsthoefel, N. R. 3454
 Forti, D. 1096
 Fortin, C. 7587
 Fortin, J. 3935
 Fortuna, P. 203
 Fos, A. 6710
 Foschi, F. 7421
 Foschi, S. 5662
 Foster, J. 2261
 Foster, R. E. 910, 6417
 Fouche, C. F. 2936
 Fouché, P. S. 3571
 Fouda, R. A. 9773
 Fougère-Rifot, M. 3988, 6723
 Fourcroy, P. 2192, 7721
 Fourez, A. 3796-3797
 Fourie, P. C. 9231
 Fournier, F. 6555
 Fournier, J. M. 9285
 Fouse, D. C. 7225
 Fowke, P. J. 3910
 Fowler, H. G. 3654
 Fox, G. A. 7004
 Fox, R. T. V. 8012
 Foyer, C. H. 3063, 9538
 Fozia Khattak 10686
 Fradinger, S. 5934
 Fragoso, M. A. C. 1375
 Fraguas, A. 6409
 Fraignier, M. P. 2849
 Frampton, C. 9622
 França, S. C. 3547, 3551, 5341
 France, C. 9622
 France, Centre Interrégional de Recherche et d'Expérimentation de la Fraise 3712-3713
 France, Centre Technique Interprofessionnel des Fruits et Légumes 2005, 2366
 France, Établissement National Technique pour l'Amélioration de la Vigne 5747
 France, Institut National de la Recherche Agronomique 7480
 France, Union Nationale Interprofessionnelle des Légumes Transformés 5857, 5926, 9469
 Francescangeli, N. 1444, 4212
 Franceschini, M. 2128
 Franchini, M. 3373
 Francis, P. B. 10549
 Franco, A. A. 5936
 Franco, C. F. de O. 6269
 Franco, C. M. M. 2449
 Franco, J. 187, 193
 Franco, J. A. 4522
 Frangiscos, E. 8988
 Franich, R. A. 9349
 Frank, A. 9919
 Franke, R. 7154
 Franken-Bembek, S. 1990
 Frankhuizen, R. 396, 3350
 Franklin, F. C. H. 1554
 Franklin, H. 5596
 Franklin-Tong, V. E. 1554
 Franqueville, H. de 1839
 Frans, R. E. 8565
 Franssen, M. C. R. 359
 Franz, C. 3526, 9815
 Franz, P. 9313
 Franzel, S. 5457
 Franzin, F. 107
 Fraś, A. 2281
 Fraser, C. 4577, 7272, 9933
 Fraser, J. A. 8323, 8326, 9258
 Frasnelli, K. 9222
 Fravel, D. R. 1423, 6906, 10528
 Frazão, J. M. F. 773
 Frazer, R. 10067
 Frazza, G. 8445
 Freckman, D. W. 2589
 Frecon, J. L. 1127-1128
 Frederick, F. 7050
 Freeman, N. 5278, 5288
 Freeman, N. L. 5160
 Freeman, T. P. 10670
 Frega, N. 3625
 Fregoni, M. 3049, 3976, 5752
 Freiji, F. G. 6780
 Freire, L. C. L. 6021
 Freitas, B. M. 9016
 Freitas, M. C. 6764
 Freiwat, M. M. 1446
 Frenck, R. 3387
 Frenkel, C. 10474
 Frenkel, M. 791
 Fresenburg, B. F. 3445
 Frett, J. J. 7909
 Freudenstein, H. 4341
 Freudenstein, J. V. 10693
 Frey, R. 6098
 Frezza, D. 6409
 Fricker, M. D. 4169
 Fricot, L. 6711
 Friedlander, M. 6299
 Friedman, D. 4210
 Friedman, D. B. 6011
 Friedman, M. 548
 Frigg, M. 8171
 Frigola, A. 2264, 4184, 5068
 Fritsch, R. 2410
 Fritts, R., Jr. 7449
 Fritz, D. 1503, 3359
 Fritz, E. 2309
 Frohnmeyer, H. 4438
 Froissart, R. 1814
 Frolov, V. L. 7675
 Fromm, H. 3400
 Fromm, J. 4418
 Fromont, J. C. 555
 Fronczek, F. R. 4387
 Froneman, I. J. 1747, 4539
 Fronza, V. 8532
 Frossard, J. S. 8233
 Frost, A. J. P. 3079
 Frøynes, O. 3818, 4812, 4856
 Fruchier, A. 9405
 Fruits 1003
 Frutos, M. J. 8626
 Frzyńska-Józwiak, D. 8853
 Fry, J. D. 668, 7034, 10675
 Fry, S. C. 5276
 Fryer, J. 2497
 Fryer, M. J. 424
 Fu, D. Z. 10877
 Fu, H. Y. 1725
 Fu, J. R. 921, 1769, 2637, 4085, 4567, 7336
 Fu, L. 9104
 Fu, M. H. 5868
 Fu, Q. 3905
 Fu, R. W. 2889
 Fu, W. 6767
 Fu, Y. H. 3892
 Fu, Y. M. 2450, 9174
 Fu, Z. Q. 3137
 Fu DeZhi 10877
 Fu JiaRui 921, 1769, 2637, 4085, 4567, 7336
 Fu MingHua 5868
 Fu Qiang 3905
 Fu RongWu 2889
 Fu YuHu 3892
 Fu YunMin 9174
 Fu ZhenQing 3137
 Fuchs, C. 5767
 Fuchs, Y. 3579, 5127
 Fuentes, E. R. 1702
 Fuentes, J. L. 7775
 Fuentes, V. 2614, 6016
 Fuggi, A. 6957
 Fujii, S. I. 8758
 Fujieda, K. 5092, 8655
 Fujihara, S. 3331
 Fujii, C. 1551
 Fujii, T. 6047
 Fujikura, Y. 1344
 Fujime, Y. 4021, 4966, 4998, 9355
 Fujimori, T. 1647, 7878
 Fujimura, R. K. 4966
 Fujinami, K. 4614
 Fujino, M. 2056
 Fujino, O. 4124, 5010
 Fujioka, S. 6100, 6277, 6999, 7160
 Fujishiro, T. 8517
 Fujita, M. 823, 5913, 5920
 Fujita, S. 4974
 Fujita, T. 6961
 Fujita, Y. 2221
 Fujiura, T. 2316, 5768
 Fujiwara, K. 3716, 6495
 Fujiwara, S. 379
 Fujiwara, T. 7230, 8547
 Fukai, N. 5900
 Fukakusa, M. 6953
 Fukamiya, N. 6335
 Fukano, Y. 10615
 Fukasawa, K. 1518
 Fukaya, M. 6794
 Fukiharu, T. 6164
 Fukuchi, H. 4795
 Fukuda, H. 3758
 Fukuda, M. 3268, 8840
 Fukuda, N. 5485
 Fukuda, T. 4947
 Fukuhara, K. 6679
 Fukuhara, T. 5164
 Fukui, H. 1438, 1633, 4560
 Fukumachi, H. 5422
 Fukumoto, D. 10820
 Fukunaga, Y. 638-639, 2403, 6127, 7893
 Fukuoka, N. 7717-7718, 8547
 Fukushi, E. 638-639, 1551, 6127, 7893
 Fukushi, Y. 9497
 Fukushima, A. 8000
 Fukushima, K. 5167
 Fukushima, T. 4844
 Fukushima, Y. 3360
 Fukuyama, T. 514, 2301, 8077, 9037
 Fulgosi, H. 7679
 Fuller, M. 237
 Fuller, M. P. 3383
 Fullerton, R. A. 4044
 Fullin, E. A. 8156
 Fullone, M. R. 6766
 Fumagalli, I. 2238
 Funahashi, H. 379
 Funatsu, G. 6834, 7176
 Funk, M. 6989
 Funnell, K. A. 10635
 Furmanowa, M. 761
 Fürst, L. 327
 Furu, P. 2563, 9843
 Furuhashi, K. 3597
 Furui, S. 6771
 Furuichi, Y. 8598
 Furukawa, A. 7375
 Furukawa, H. 4513, 6335
 Furukawa, I. 10598
 Furukawa, K. 5975
 Furukawa, T. 1718
 Furuta, S. 3737
 Furuya, S. 389, 2827
 Fusconi, A. 203
 Fusi, F. 9527
 Fuss, A. M. 1639
 Fussell, M. 3278
 Fúster, C. 7786
 Fuster, M. D. 1740, 2618
 Futami, K. 4013
 Futane, D. N. 10430-10431
 Futch, S. H. 5374-5375
 Fynn, R. P. 3725
 Gafer, S. A. 5892, 6056, 7681
 Gabara, B. 3215
 Gabarayeva, N. I. 4358
 Gabarra, P. A. 506
 Gabarra, R. 5903
 Gabhane, A. T. 3230
 Gaborit, T. 3211
 Gáborjányi, R. 7808, 8629
 Gabova, R. 174, 5682
 Gabr, M. F. 9863-9864
 Gabrielli, A. C. 10740
 Gabrielson, R. L. 10448
 Gabryszevska, E. 7100
 Gadalina, L. M. 8246
 Gadoury, D. M. 281, 1243
 Gadre, R. P. 5944
 Gafni, Y. 1450
 Gafta, C. 5319
 Gage, J. 1653
 Gagnon, M. 8083
 Gagnon, M. J. 8779
 Gaidarova, S. 5606
 Gaikwad, A. P. 2091
 Gaikwad, R. S. 8488
 Gailing, O. 8046
 Gaillard, J. P. 3701
 Gajapathy, M. K. 2566
 Gajaria, K. 6281
 Gajbhiye, V. T. 1460
 Gajdoš, J. 5236
 Gal, A. 7679
 Galambosi, B. 2787, 3520
 Galan, V. 8998
 Galanti, G. 559
 Galassi, T. 3749
 Galati, E. M. 764
 Galbraith, D. W. 8522
 Galea, V. J. 1523
 Galilee, M. 5853
 Galily, D. 842
 Galindo, L. 2614
 Galizzi, G. 1006
 Galkin, M. A. 7413
 Gallagher, E. C. 6353
 Gallardo, C. 4219
 Gallardo, E. 10829-10830
 Gallardo, M. 332, 6779
 Gallardo-Guerrero, L. 865, 1761, 4552
 Galle, A. M. 7131
 Gallego, J. 2614, 6016
 Gallego Rodríguez, J. 6689
 Gallerani, G. 5627, 7507
 Galeschi, L. 179
 Galletta, G. J. 1203
 Galli, E. 2355
 Galli, M. G. 5056
 Galliano, A. 1153
 Gallik, A. 590

- Gallina, D. 244, 5096
 Gallois, R. 10998
 Galloway, C. M. 5059
 Gally, A. 8927
 Galmarini, C. 4656
 Galmarini, C. R. 5889
 Galopin, G. 10720
 Galston, A. W. 6028
 Galván S., J. L. 5178, 5208
 Galvão, N. 8439
 Gamage, N. 8819, 10792
 Gamalei, Yu. V. 9153, 9676
 Gambacorta, G. 311, 4979
 Gamon, J. A. 1912
 Gamón, M. 1721
 Gampert, U. 4305-4306
 Gan, W. Y. 6258
 Gan-Mor, S. 7797
 Ganai, M. R. 1135
 Ganapathi, A. 4822
 Ganapathi, T. R. 3646
 Ganapathy, M. M. 3626
 Ganashan, P. 8721
 Gandar, P. W. 68
 Gandul-Rojas, B. 865
 Gane, A. M. 7879
 Ganesh, S. 8312
 Ganesh Kumar 4538
 Ganeshiah, K. N. 5050, 7381
 Ganeshanandam, S. 10273
 Gangadhara Nayak, M. 9941
 Gangrade, S. K. 5310, 10759, 10785
 Gant, S. J. 6938
 Gantner, M. 1140
 Ganzelmeier, H. 1910
 Gao, F. 9511
 Gao, F. Y. 7019
 Gao, H. S. 189
 Gao, J. P. 728, 4283, 6573
 Gao, J. Y. 6188
 Gao, L. H. 368, 4080, 6784
 Gao, L. P. 2040
 Gao, M. G. 2415
 Gao, M. Y. 6573, 6630
 Gao, T. H. 4296
 Gao, X. H. 2758, 3688
 Gao, X. M. 9133
 Gao, X. X. 10197
 Gao, Y. 2987
 Gao, Y. H. 10837, 10856
 Gao FangYou 7019
 Gao Fen 9511
 Gao HaiSheng 189
 Gao JianPing 6573
 Gao JiYun 6188
 Gao JunPing 728, 4283
 Gao LiHong 368, 4080, 6784
 Gao LiPing 2040
 Gao MeiYing 6573, 6630
 Gao MingGeng 2415
 Gao TianHong 4296
 Gao XinXing 10197
 Gao XiuMei 9133
 Gao XuHui 2758, 3688
 Gao Yi 2987
 Garamvölgyi, I. A. 8629
 Garate, A. 1391
 Garau, V. L. 5387, 8956
 Garay, L. A. 693, 4373
 Garber, M. P. 7423
 Garcha, H. S. 578
 García, A. 6404, 10929
 García, A. 10991
 García, A. L. 6016
 García, D. C. 2130, 4026, 6746, 10370, 10415
 García, E. J. 5385
 García, F. 4190
 García, H. 1586
 García, J. L. 153, 4929
 García, J. M. 1215, 4896, 5432, 8104-8105
 García, J. P. M. 5253
 García, L. 2614
 García, P. 2653
 García, S. 1857
 García, T. 5640
 García-Agustín, P. 1723, 4499
 García-Argaez, A. 5340
 García-Ballinas, A. 9019
 García-Cánovas, F. 10144
 García-Carmona, F. 8538
 García-Cazorla, J. 1246
 García de Santana, D. 4639
 García-Díaz, G. 4257
 García Fernández, J. L. 7531
 García G., M. A. 223
 García-García, F. 4583
 García Gimeno, R. M. 2265, 6880
 García-Gómez, M. L. 2581
 García Jares, C. M. 10356
 García Lidón, A. 1740, 2618
 García-Luís, A. 2615
 García-Luís, M. A. 836
 García Maiquez, E. 7637
 García-Marí, F. 2895
 García-Martínez, J. L. 1400, 4176
 García-Pardo, E. 9305
 García-Parrilla, C. 2099
 García Puig, D. 1740
 García-Rodeja Gayoso, E. 3975
 García-Romera, I. 5276
 Garcíarrubio, A. 3200
 Garcin, A. 1129, 7456
 Gardan, L. 4220
 Gardet-Salvi, L. 2149, 6767
 Gardiner, D. T. 351, 3122
 Gardner, B. R. 6789
 Gardner, J. 3943
 Gardner, R. O. 8877
 Gardner, W. A. 4397
 Gardzienka, F. M. 766
 Garg, R. N. 7268
 Garibaldi, A. 632, 746, 1047, 1666, 5175, 6929, 7962
 Gariglio, N. F. 4214
 Garijo, C. 5385
 Garisto, M. A. 8662
 Garner, J. M. 7008
 Garner, J. O., Jr. 6466
 Garnock-Jones, P. J. 8880
 Garrett, J. T. 1409
 Garrett, R. E. 5860
 Garrido, A. 2653
 Garrido, G. 6993
 Garrido-Fernández, J. 1761
 Garrity, D. P. 10039
 Gärtner, E. 1683
 Gartner, H. 9178
 Gary, C. 533
 Garz, J. 9463
 Garzi, R. 3625
 Garzia, G. T. 3291-3292
 Gasbarro, E. 647
 Gasem, K. A. M. 6636
 Gaskin, P. 1400
 Gaspar, C. 1963
 Gaspar, T. 4886, 6249, 6268, 8389
 Gašparíková, O. 4664
 Gasparotto, L. 877, 7348, 9076
 Gaspera, P. G. della 5889
 Gasperi, F. 2870
 Gasser, C. S. 1474
 Gasser, F. 9311
 Gastaldo, I., Jr. 5902
 Gastélum, G. 4848
 Gaston, L. K. 8072
 Gates, P. 5060
 Gates, R. S. 6199
 Gatica de Mathey, M. 8468
 Gattuso, A. M. 8053
 Gatz, A. 2275
 Gau, A. E. 4972
 Gauglitz, G. 5047
 Gauhi, F. 9002
 Gaul, S. O. 237
 Gaulliard, J. M. 2425
 Gaussoin, R. 2428
 Gaussoin, R. E. 10676
 Gautam, G. P. 10481
 Gautam, J. K. S. 6732
 Gautam, K. M. 9443
 Gautam, P. L. 2820, 6186
 Gauthier, L. 1900, 4690, 6232, 10491
 Gauthier, R. P. 196
 Gautrat, M. P. 6930
 Gavillet, S. 87
 Gaviola, J. C. 4656
 Gavrilov, N. P. 7525
 Gawade, B. J. 9714
 Gawęda, M. 361, 550, 6801, 9493
 Gawel, N. J. 6229
 Gawron-Gzella, A. 875
 Gawronska, H. 5975
 Gay, C. 4647-4648
 Gayà Suñer, T. 7055
 Gaydou, E. M. 742, 8763
 Gazanfer, S. 9232
 Gazaway, W. S. 7774
 Gaze, R. H. 2338
 Gazeau, C. 6278
 Gazit, S. 2580, 2669, 4543, 9901
 Gbenle, G. O. 2713
 G"bova, R. 5682
 Gbur, E. 6662
 Ge, H. M. 1995
 Ge, M. 3052
 Ge, N. F. 1330
 Ge, X. R. 10315
 Ge HuiMin 1995
 Ge NaiFen 1330
 Gea, M. A. 10256
 Geddes, B. 2970-2971
 Gedykh, V. B. 3010
 Geelen, P. M. T. M. 4982
 Geels, F. P. 7848
 Gefflaut, J. 4317
 Gegogaine, J. W. 479
 Geier, N. I. 4458
 Geijn, F. van de 1124, 6593, 10146
 Geiken, B. 8610
 Gelder, H. van 9696
 Gemert, J. van 2821
 Gémes-Juhász, A. 6856
 Gemma, H. 8361
 Génard, M. 3874, 8354, 8398
 Genç, Ç. 7920, 9237
 Genç, Z. 3487
 Gendraud, M. 6478, 6775, 10216, 10720
 Gendrier, J. P. 3869, 8299
 Generalao, L. C. 6379
 Generlich, T. 5291
 Generozova, I. P. 7760
 Genevini, P. L. 6814
 Geng, L. 2547
 Geng, Y. 1431
 Geng, Y. X. 6812
 Geng Li 2547
 Geng YuXuan 6812
 Genizi, A. 1765
 Genner-Ritzmann, R. L. 9225
 Geno, P. W. 1982
 Genoud-Gourichon, C. 7095
 Gensi, R. M. 5454
 Gent, M. P. N. 7091
 Genty, B. 3499
 Geoffrion, R. 1964
 George, A. P. 868, 5435, 9286, 10088, 10204, 10213, 10892-10893
 George, B. E. 8890
 George, E. 6239
 George, K. C. 2674
 George, M. 2680
 George, M. J. 941
 George, M. V. 4598
 George, P. 10359
 George, P. J. 1704
 George, S. K. 1316
 George, S. T. 9107
 George, T. 1460
 Georgiadis, T. 1999
 Georgiev, G. 6919
 Georgiev, V. 4815
 Georgieva, N. 6845, 6869
 Georgieva, V. 6845-6846, 6869
 Georgiou, A. 8075
 Gerard, H. C. 2311
 Gerasopoulos, D. 192, 497, 887, 908, 2039, 3917, 4554, 6607, 6658, 8186, 8372, 8401, 8753, 8757, 9909, 10622
 Geraud-Pouey, F. 10555
 Gerber, R. G. 4926, 8072
 Gerdes, D. L. 209
 Gerhardt, K. E. 6027
 Gerhardt, L. B. de A. 1819
 Gerlagh, M. 1673
 Germain, E. 5689, 5692, 8342
 Germani, F. 3485
 Germanò, M. P. 764
 Germany, Biologische Bundesanstalt für Land- und Forstwirtschaft 2832, 3057, 3534, 8477
 Germany, Forschungsanstalt Geisenheim und Fachbereiche Weinbau und Getränketechnologie, Gartenbau und Landespflege der Fachhochschule Wiesbaden 8191
 Germany, Institut für Angewandte Botanik der Universität Hamburg 6481
 Germany, Institut für Obstbau und Gemüsebau der Rheinischen Friedrich-Wilhelms-Universität Bonn 10056
 Germany, Kuratorium für Technik und Bauwesen in der Landwirtschaft e. V. 3708
 Gerrits, M. M. 8195
 Gersbach, K. 5591
 Gershbein, L. L. 2391
 Gerst, U. 4970, 7121
 Gertsson, U. E. 3280, 3288, 7810
 Gervasini, E. 1628
 Gesch, R. W. 8464
 Geslot, A. 6223
 Gessa, C. 2953
 Gessler, C. 4775
 Geyer, B. 10445
 Geyer, M. 9448
 Geypens, M. 5844
 Gahramani, F. 1978
 Ghai, T. R. 7765, 7769
 Ghaly, E. A. 6325
 Ghana, Cocoa Research Institute 8192
 Ghandhi, S. J. 5962
 Ghandimathi, H. 9082
 Ghanem, S. A. 9577, 9607, 10786
 Ghanta, P. K. 927, 1841-1842, 7345
 Gherghi, A. 8321
 Gheyas, F. 4805
 Ghidui, G. M. 1458
 Ghiretti, G. 6005
 Ghisalberti, E. L. 768
 Ghiselli, L. 3512
 Gholami, M. 2100, 10345
 Ghorbal, M. H. 8591
 Ghorbel, R. 10884
 Ghose, S. 7289
 Ghosh, A. 6464, 9110
 Ghosh, A. C. 10783
 Ghosh, J. 9555
 Ghosh, S. 2237, 6027, 7316
 Ghosh, S. N. 1792, 1828, 7280, 10914
 Ghrir, E. 852
 Giacomelli, G. A. 44, 490, 1899, 10417
 Giacomini, C. 486
 Giambalvo, D. 5950
 Giametta, F. 6328
 Giametta, G. 1760, 6362, 7247
 Giandon, P. 2843
 Gianetti, G. 4919
 Gianinazzi, S. 203, 441, 8206
 Gianinazzi-Pearson, V. 203, 441, 8206
 Giannetti, F. 9407
 Giannini, A. 7883
 Gianquinto, G. 4981, 4993, 8531
 Giardi, M. T. 8610
 Giauque, P. 4
 Gibb, K. S. 10023
 Gibbons, J. T. 4174
 Gibbs, J. N. 2469
 Gibeault, V. A. 8805
 Gibernau, M. 3827

- Giblin, E. M. 4115
 Gibson, P. 10217
 Gibson, P. T. 10220
 Gichuru, M. P. 3648
 Gidrol, X. 945
 Gieling, T. H. 2819
 Giesler, L. J. 8797, 10664
 Giessmann, H. J. 9479
 Giganti, F. E. 4776
 Gignoux, C. 7456
 Gignoux-Spitz, C. 6602
 Gigliotti, G. 508
 Gil, A. 10748
 Gil, M. I. 2661, 9467
 Gil-Albarellos, C. 7773
 Gil-Albarellos Marcos, C. 8475
 Gilbert, J. M. 9224
 Gildemeister, H. 8768
 Giles, D. K. 3943
 Gilfillan, I. 5398
 Gilkey, R. 6194, 7956
 Gill, B. S. 4194
 Gill, D. S. 3838, 4827
 Gill, G. S. C. 3909
 Gill, L. F. 5481
 Gill, M. I. S. 1716
 Gill, R. 4207
 Gill, S. 7860
 Gill, S. P. S. 7654
 Gill, S. S. 4194
 Gillen, G. 4788
 Gillespie, J. B. 2345
 Gillespie, P. 7396
 Gillespie, T. J. 2470
 Gillet, J. M. 7599
 Gilliam, C. H. 707, 730-731, 2377, 2489, 6105, 6209, 6211, 6220-6221, 9795-9796
 Gillies, F. M. 2767, 5482, 7306-7308
 Gillioz, J. M. 6930
 Gillman, L. 564
 Gilman, E. F. 4428
 Gilmore, A. M. 370, 4079
 Gilreath, P. R. 6913
 Gilroy, S. 7869
 Gimenes, E. S. 10415
 Giménez, J. L. 7775
 Giménez-Gallego, G. 3671
 Giménez-Sampaio, T. 4681
 Gimonnet, G. 3958
 Gindin, E. 3385
 Ginestar, C. 6327, 9882
 Ginsig, U. 6203
 Ginzo, H. D. 8584
 Giogelli, F. 9247
 Giordani, H. 9386
 Giordano, L. de B. 4117, 7753, 7787
 Giorgessi, F. 1236, 3048, 9390
 Giorgi, E. 759
 Giorgini, M. 1457
 Giovannantonio, C. di 5123
 Giovannetti, G. 3373
 Giovannetti, M. 203
 Giovannini, D. 2021, 2947, 3844, 3900
 Girard, B. 2917
 Girard, J. C. 5802
 Girard, T. 4829
 Girardet, C. 4232
 Girardin, M. 8421
 Giraud, G. 225
 Giraud, M. 1207, 8292
 Gírbés, T. 2709
 Griappa, S. 2788
 Giridharan, M. P. 1665
 Girija, T. 9014
 Girolami, V. 1045, 1094
 Giron, J. 10926
 Gisslen, J. L. 10563
 Gisusi, S. 8729, 8732
 Gitimu, C. W. 4604, 6406
 Giuffrè, A. M. 4849, 8053
 Giuliani, G. 4760
 Giulio, A. de 8688
 Giulivo, C. 7603
 Giunchedi, L. 2290
 Giunta, C. 569-570
 Giusquiani, P. L. 508
 Giust, M. 8438
 Giusti, M. M. 9496
 Giustiniani, L. 5019, 5123
 Glaab, J. 8501
 Gladish, D. K. 1392
 Gladon, R. J. 3027, 4246
 Gladstones, J. 9408
 Gladyshev, N. P. 8273
 Glaser, E. 1299
 Glässgen, W. E. 5142
 Glazunova, I. N. 3904
 Gleason, M. L. 3027
 Glen, D. M. 1316
 Glendinning, P. J. 9841
 Glenn, D. M. 9288-9289
 Glenn, S. 9119
 Gliessman, S. R. 5721
 Glocke, P. 9794
 Glories, Y. 310
 Glover, H. 3879
 Glucina, P. G. 10175
 Ğncü, M. 8572
 Gninenko, Yu. I. 9854
 Goad, L. J. 556
 Goatley, J. M., Jr. 4342, 9721
 Gobattoni, E. 540
 Goburdhun, S. 7276, 8161, 10394
 Godara, N. R. 968, 10663
 Godde, D. 7677, 9453
 Goddrie, P. D. 76
 Godefroy, J. 3701
 Godfrey, L. 9510
 Godinho, V. de P. C. 7185-7186
 Godlewska, E. A. 8396
 Godoy, H. T. 8979
 Godwin, I. D. 9004
 Goenadi, D. H. 4678
 Goenaga, R. 881-882
 Goerre, M. 2855
 Goff, W. D. 4392, 7774
 Goffings, G. 141, 6036, 9211, 10263
 Goffman, F. 10811
 Goffreda, J. C. 1064, 1127-1128, 2856
 Gofur, M. A. 7335
 Gogoi, D. K. 933
 Gogorcena, Y. 1219
 Goh, C. H. 5957
 Goh, C. J. 4376, 6317, 10656
 Goh ChangHyo 5957
 Goh ChongJin 10656
 Gohet, E. 937, 5509
 Gohn, L. 1627
 Gojon, A. 1302
 Gökmen, V. 9583
 Golaszewski, J. 2052
 Golcz, A. 9564
 Goldberg, M. 3724
 Goldhamer, D. A. 2035
 Goldman, I. L. 4053
 Goldsberry, J. A. 43
 Goldsberry, K. L. 43
 Goldschmidt, E. E. 842, 4512, 4523
 Goldshmidt, Y. 3595
 Goldthorpe, C. C. 9998
 Goldwasser, Y. 3120
 Golembiewski, R. 9719
 Golliwar, V. J. 7906
 Gollnow, B. 2367
 Gollotte, A. 441
 Golovkina, G. I. 4458
 Golovko, T. K. 4452
 Goma, A. H. 2954-2956
 Gomes, D. T. 5542
 Gomes, J. A. 8156
 Gomes, J. M. 7805
 Gomes, R. 1267
 Gómez, C. 5072, 7313
 Gómez, E. 261
 Gómez, I. 493, 511, 8628
 Gómez, L. D. 5943, 5946, 6852
 Gómez, M. 9461
 Gomez, R. M. 10185
 Gómez, Z. 505
 Gomez de Barreda, D. 8059
 Gómez del Campo, M. 8435
 Gómez-Lim, M. A. 1832, 4632
 Gómez Posada, S. 2380
 Gomma, A. H. 9200
 Gonçalves, M. L. 9731
 Gonçalves, M. T. 6264
 Gonçalves, P. A. S. 9446
 Goncharova, E. A. 6025
 Göndör-Pintér, M. 7538
 Gondran, J. 669
 Gonet, S. S. 9594
 Gong, B. 2548
 Gong, B. C. 4561
 Gong, G. Q. 6839
 Gong, X. 5671
 Gong, X. K. 7019
 Gong BangChu 4561
 Gong Bi 2548
 Gong GuoQiang 6839
 Gong XueKun 7019
 Gongge, V. S. 10380
 Gonsalves, C. 1353
 Gonsalves, D. 1353
 Gontar, O. B. 5258
 Gönülşen, N. 5222
 Gonzaga, W. 3245
 González, A. 305, 5207, 6314, 7210, 7214
 González, C. 5480
 González, D. I. 4257
 González, E. 294, 3873
 González, J. 7211-7212, 7214, 8074
 González, J. C. 8914
 Gonzalez, J. F. 9523
 González, J. L. 7210, 10513
 Gonzalez, J. L. 4440
 González, J. M. 505
 González, L. 7403
 González, M. 4190, 6817
 González, M. C. 305
 González, M. L. 6704
 González, M. V. 1186, 6644
 González, R. 5426
 González, R. H. 212, 2846
 González, V. 4884, 5312, 10290
 González-Aguilar, G. 6829, 7226, 7338
 González Benavente-García, A. 4336
 González-Benito, M. E. 654, 2329, 4280
 González-Fernández, P. 8593
 González Ibáñez, M. 4336
 González-Melendi, P. 2274, 4185
 González Ponce, R. 6012, 7799
 González R., R. 6516
 González-Rosas, H. 4476
 González-Sanjosé, M. L. 10348
 Goo, D. H. 6126
 Goo DaeHoe 6126
 Goodchild, L. 10971
 Goodman, W. R. 6020
 Goodwin, R. M. 2997
 Goodwin, S. 7396
 Goossen-Geijn, H. M. van de 1673
 Goossens, L. 2340
 Gopakumar, C. S. 1790
 Gopal, G. V. 4177
 Gopal Lal 10443, 10941
 Gopalakrishnan, C. 10554
 Gopalakrishnan, M. 7906
 Gopalsundaram, P. 10919
 Gorakh Singh 10942, 10946
 Gorbatenko, I. Yu. 2291, 9608
 Gorbunov, Yu. N. 8410
 Gorbunova, E. O. 2529
 Gordon, I. 2467
 Gordon, N. Yu. 5145
 Gordon, R. 2829
 Gordon, S. C. 7567
 Goren, R. 2616, 8064
 Gorenkova, L. G. 5978
 Görgens, M. 5553
 Gorgoschide, L. 8535
 Gorinova, N. I. 2558
 Gorinstein, S. 871, 6155
 Görne, W. 2916
 Gornik, A. 3150
 Gorny, J. R. 9217
 Gorris, L. G. M. 4332, 5202
 Gosal, S. S. 1716, 3583, 5653
 Gosiewski, W. 1447
 Gospodinova, M. 5656, 6554
 Gosselin, A. 529, 1672, 3530, 4445, 6232, 7179, 8686, 9601, 10491
 Goswami, A. M. 8483
 Goswami, B. 6383
 Goswami, T. K. 9817
 Goszczyński, W. 8404
 Gotfreed, A. 839
 Gothandapani, L. 579, 10777
 Goto, A. 4532, 10861
 Goto, E. 4058
 Goto, K. 3286
 Goto, M. 5163, 9373, 9633
 Goto, T. 5989, 9373, 10399
 Gottlieb, O. R. 4451
 Gottwald, T. R. 7208
 Gouge, D. H. 5286
 Gough, N. 1607-1608
 Gouk, S. S. 703, 6178
 Goulart, B. L. 7573, 7575
 Gould, K. S. 2995, 8884
 Goulding, E. 6472
 Goutot, J. M. 2425
 Goupil, P. 1302
 Gouramanis, G. D. 542
 Gouws, J. 2606
 Govekar, M. A. 9980
 Govil, S. 34
 Govind, S. 2716, 10947
 Govindaraju, V. 7439
 Govindareddy, D. M. 7291
 Gowda, A. 8658
 Gowda, A. B. 9506
 Gowda, B. J. 6378, 10911
 Gowda, I. N. D. 4619
 Gowda, J. V. N. 2416, 3406, 7966
 Gowda, M. C. 3141
 Gowrishankar, B. 6762
 Goyette, B. 2188
 Gozzini, B. 1242, 3983, 7609, 7612, 10342
 Graaf, R. de 3500
 Grabbe, K. 3335
 Grace, J. 9268
 Grädinariu, F. S. 8321
 Grädinariu, G. 8321
 Graebe, J. E. 3185
 Graf, B. 1966, 5553, 6565, 6621
 Grafiadellis, M. 264, 494, 497-498, 2296, 8427
 Grafiadellis, M. I. 8751
 Grafton-Cardwell, E. E. 2604, 8950-8951
 Gragson, T. L. 4674
 Graham, A. 2198
 Graham, C. J. 2965
 Graham, E. A. 5226
 Graham, E. T. 9786
 Graham, H. A. H. 2300
 Grahn, P. 10052
 Graifenberg, A. 5019, 5123
 Grams, T. E. E. 5241-5242
 Granados Friely, J. C. 11026
 Gránásky, T. 9184
 Granata, G. 4720
 Granberry, D. M. 1409
 Grande, C. 7624
 Grandi, M. 3847
 Grandmaison, J. 8031
 Grandmougin-Ferjani, A. 6748
 Granel, A. 3606
 Granett, J. 8476, 9395
 Grange, E. W. le 8433
 Grange, R. I. 1472
 Granger, R. L. 4744
 Granges, A. 1427, 3285
 Granlund, H. 7052
 Grant, D. 6760
 Grant, J. 7522
 Grant, J. A. 2427, 2936, 9330
 Grant, J. E. 8326, 9258
 Grant, J. H. 9335
 Grant, R. S. 9381
 Grant, W. J. R. 10731
 Grantz, A. A. 2310
 Grantz, D. A. 1230
 Grantzau, E. 8825
 Grapin, A. 3644
 Gras, G. 4959

- Grasdalen, H. 6030
 Grasselly, D. 2208, 3871, 8352
 Grassi, M. 9312
 Grasso, S. 5285
 Grattan, S. R. 2298
 Grau, A. 5357, 9332
 Grauke, L. J. 2977, 5680, 8376, 9315
 Grauslund, J. 5593
 Graven, P. 5455
 Gravena, S. 2599, 2602, 8140
 Graves, C. H., Jr. 9414
 Graves, W. R. 1517, 4422, 8223
 Gravett, A. 5000
 Gray, D. 1259
 Gray, D. J. 2721, 4608, 4907-4908, 6691, 7322, 7328
 Gray, E. 6842, 6844
 Greatti, M. 1045
 Grebenok, R. J. 350, 8522
 Grech, N. 3579
 Grechkin, A. N. 7659
 Greco, S. 4979
 Green, C. P. 6270
 Green, F. N. 7754
 Green, J. L. 1896
 Green, L. S. 5117
 Green, N. 4009, 6730
 Green, P. S. 3699
 Green, R. L. 1031
 Green, S. R. 4779
 Greenberg, B. M. 6027
 Greenberg, J. 839
 Greenberg, R. 10923
 Greene, D. W. 1104, 7506
 Greene, G. M. 4742, 9288
 Greene, G. M., II 92, 6541
 Greenspan, M. D. 7630
 Greenway, H. 5836
 Greer, D. H. 215, 2233-2234, 4779
 Gregorio, V. di 582
 Gregoriou, C. 6355, 8075
 Gregorits, D. 5781
 Gregorová, H. 10583
 Greguoldo, M. 1261
 Grelon, J. 7015
 Grenan, S. 1225, 2080
 Greppin, H. 5839, 5841, 5967, 10475
 Gres', E. I. 8050
 Greuning, M. van 2336, 2347
 Grewal, G. P. S. 2968
 Grewal, H. S. 3583
 Grewal, S. 8005
 Grewal, S. S. 10750
 Grey-Wilson, C. 2398, 3410, 6116
 Grčić, Z. 1926, 7462
 Gribaudo, I. 262, 3959
 Gribble, K. 10628
 Griensven, L. J. L. D. van 2341, 2343, 3339, 3341, 3347, 3350-3351, 4268, 6064, 7848
 Griessel, H. M. 3880, 6584
 Griessmair, W. 3759
 Grif, V. G. 1050
 Griffen, A. M. 1049
 Griffin, D. L. 5711
 Griffiths, D. W. 391
 Grill, D. 2247
 Grillas, E. 7804
 Grillo, T. A. 4583
 Grime, V. L. 5240
 Grimm, E. 633
 Grinberg, S. 475, 6948
 Grindal, G. 7873
 Grinshpun, J. 6422
 Grisafi, F. 393
 Grisales López, F. 5456
 Grist, P. G. 10002
 Gristina, L. 6011
 Groarke, D. A. 4168
 Grobe, K. 10086
 Grochowicz, J. 1382
 Grochowska, M. J. 3782
 Grodskii, V. A. 3785
 Grodzinski, B. 10505, 10654
 Groene, J. M. de 1072
 Groenemans, R. 9066
 Groenewald, E. G. 5932
 Gronenborn, B. 1450
 Groot, A. de 359
 Groot, J. F. de 3272
 Groot, J. J. R. 10039
 Groot, L. 1019
 Groot, N. S. P. de 625
 Groot, S. P. C. 8652-8653
 Grosdemange, F. 1798
 Grosheva, N. P. 9681
 Gross, K. C. 3306, 5128, 7822
 Grossman, Y. L. 2004, 3878
 Groth, I. 10606
 Grout, T. G. 7209
 Grove, D. L. 4660, 8835
 Grubben, G. J. H. 5779
 Grube, A. 633
 Gruber, K. 8422
 Grudić, A. 9699
 Grudziński, K. 5081
 Gruelich, F. 5121
 Grumet, R. 6959
 Grunewald, O. 1478
 Grusak, M. A. 9525
 Gruselle, R. 2034
 Gruzecki, R. 4955
 Grzebelus, D. 345, 3104-3105
 Grzegorzewska, M. 4964
 Grzesik, M. 6114
 Grzyb, Z. 201
 Grzyb, Z. S. 8380-8381
 Grzywaczewski, P. 1948
 Gu, A. Q. 6812
 Gu, A. X. 3779
 Gu, D. X. 7177
 Gu, E. G. 1536
 Gu, L. P. 7117, 10442
 Gu, M. R. 108, 3783, 8285
 Gu, S. L. 9396
 Gu, W. X. 3941
 Gu, X. F. 1349, 3163
 Gu, Y. 1196, 9133, 9348
 Gu, Z. F. 675
 Gu, Z. L. 5868
 Gu, Z. X. 462
 Gu, Z. Z. 4443
 Gu AiQiu 6812
 Gu AiXian 3779
 Gu DeXing 7177
 Gu EunGyoung 1536
 Gu LiPing 7117, 10442
 Gu ManRu 108, 3783, 8285
 Gu SanLiang 9396
 Gu WenXiang 3941
 Gu XinFang 3163
 Gu Yin 1196, 9133, 9348
 Gu ZhenXin 462
 Gu ZhiZong 4443
 Gu ZongLan 5868
 Guan, A. N. 1191
 Guan, C. Y. 6181
 Guan, J. F. 3898
 Guan, P. C. 363, 1342
 Guan, X. H. 10270
 Guan, X. L. 739
 Guan, Z. H. 3301
 Guan, Z. X. 4020, 9926
 Guan AiNian 1191
 Guan ChuanYou 6181
 Guan JunFeng 3898
 Guan PeiCong 363, 1342
 Guan ZhengXue 4020, 9926
 Guan ZhiHe 3301
 Guardia, M. D. de la 9285
 Guardiola, J. L. 836
 Guarino, F. 3864, 3872
 Guarinoni, A. 181
 Guarnieri, A. 1126
 Gubiani, R. 5756
 Gubler, D. 9191, 9267, 9293, 9330, 9365, 9395
 Gubler, W. D. 1817, 9167, 9239, 9323, 9510
 Gucci, R. 3621, 6643, 9337
 Güçlü, Ş. 6641
 Gudarowska, E. 8247
 Guedalia, D. 5581, 6948
 Guédon, Y. 5499, 9261, 9988
 Gueguen, J. 2259, 3211
 Guého, J. 6492, 10062
 Gueldner, R. C. 2961
 Guerber-Cahuzac, B. 6474
 Guérin, V. 3477
 Guerra, B. 1226
 Guerra, N. 871
 Guerrero, J. E. 5172
 Guerrero Pieto, V. M. 1941
 Guerrier, G. 4229, 6941, 10550
 Guerriero, R. 5430, 9245
 Guertal, E. A. 2162, 6508
 Guéry, B. 8455, 8705
 Guest, D. I. 6513
 Gueule, D. 6405, 10926
 Guevara, E. 1396
 Guevara, Y. 6376
 Guh, J. O. 3156, 6785, 7033
 Gühnemann-Schäfer, K. 4149
 Guillaume, P. 1963
 Guillemaut, P. 481, 3536
 Guimarães, D. R. 3097, 9446
 Guimarães, P. T. G. 1805, 3660
 Guinberteau, J. 6980, 8734
 Guindy, L. F. 2621, 3584, 5365, 5381, 5393
 Guirguis, N. S. 9199-9200, 10083
 Guitián, J. 9798
 Guitián, P. 9798
 Guittonneau, G. G. 2546
 Guizard, C. 10259
 Gül, A. 2307
 Gulati, A. 2136, 9098, 9848
 Gülcan, R. 9120, 9244, 9252
 Gulden, G. 7845
 Guler, H. G. 908
 Gülleryüz, M. 9238, 10172, 10181
 Güllün, B. 9650
 Gullino, M. L. 5212, 6929, 7913, 7962
 Gulliver, B. S. 6307
 Gullo, G. 5425
 Gullo, M. A. lo 5287
 Gülşen, Y. 9263
 Gulshan Lal 1441, 6896
 Gulyás, F. 8731
 Gumaste, S. K. 1840
 Gumbira-Sa'id, E. 978
 Gumilevskaya, N. A. 2246, 7756
 Gün, H. 160, 9269
 Gunasekaran, C. R. 6010
 Gunasekera, T. S. 10019
 Günay, A. 7730, 7749
 Gundersheim, N. A. 2112
 Güner, M. 6596
 Güneş, A. 364, 3094, 6065, 7669, 8627, 10419
 Güney, A. 9646
 Gunjal, S. B. 7747
 Gunjate, R. T. 7994, 9980
 Günther, I. 5787
 Guo, C. Z. 4443
 Guo, F. L. 739
 Guo, F. Y. 1228
 Guo, H. P. 9181
 Guo, H. Q. 1038-1039
 Guo, J. H. 3052
 Guo, J. S. 2941
 Guo, J. X. 10838
 Guo, K. 728
 Guo, L. G. 4531
 Guo, L. R. 4354
 Guo, L. W. 7127
 Guo, Q. J. 10385
 Guo, Q. Q. 1696
 Guo, W. D. 3911
 Guo, W. F. 7363
 Guo, X. P. 1725
 Guo, Y. J. 4025
 Guo, Y. L. 6847
 Guo, Y. P. 210, 2038
 Guo, Y. T. 5042
 Guo, Z. 4462
 Guo, Z. C. 1831
 Guo, Z. F. 867, 7253, 10890
 Guo, Z. H. 4462
 Guo, Z. L. 1350
 Guo, Z. Y. 6171
 Guo ChengZhi 4443
 Guo HuangPing 9181
 Guo HuiQing 1038-1039
 Guo Kang 728
 Guo LianWang 7127
 Guo LinGan 4531
 Guo LiRong 4354
 Guo QiJiu 10385
 Guo QingQuan 1696
 Guo WeiDong 3911
 Guo WenFei 7363
 Guo YaJing 4025
 Guo YanLiang 6847
 Guo YanPing 210, 2038
 Guo YanTiang 5042
 Guo ZeCheng 1831
 Guo ZhenFei 867, 7253, 10890
 Guo ZhuoYi 6171
 Gupta, A. 9565
 Gupta, A. K. 965, 4252, 6123, 6214, 6463
 Gupta, G. K. 1087
 Gupta, K. 6215
 Gupta, L. K. 5298, 7153
 Gupta, M. 8602
 Gupta, M. M. 7146
 Gupta, N. 7793
 Gupta, P. 8915
 Gupta, P. K. 1864, 5611
 Gupta, P. N. 2596
 Gupta, R. 9112, 10797
 Gupta, R. C. 10599
 Gupta, R. K. 1460, 5829
 Gupta, R. P. 10384, 10519
 Gupta, S. 1437
 Gupta, S. C. 34, 8015
 Gupta, S. D. 6875
 Gupta, S. K. 1333, 4077, 5611, 6019, 9850, 10447
 Gupta, S. P. 2136
 Gupta, V. K. 3750, 5611
 Gupton, C. L. 9352
 Gurbaksh Singh 8049
 Gurbinder Singh 6888
 Gürbüz, B. 756, 6962, 7164
 Gürgen, M. 8056
 Gurin, A. G. 2866
 Guritno, P. 9989
 Gurmit Singh 3680
 Gurning, S. 8122
 Guruprasad, T. R. 3519
 Gurusamy, R. 6072
 Gurusiddaiah, S. 235
 Gurveen Kaur 10484
 Guseva, N. N. 8256
 Gusi, L. C. 4885
 Gut, D. 4767
 Gutezeit, B. 3318
 Gutiérrez, A. 3275
 Gutierrez, A. P. 987
 Gutiérrez, C. 7866
 Gutiérrez, F. 5432, 8104-8105
 Gutiérrez, H. F. 4214
 Gutierrez, R. G. 5108
 Gutiérrez Acosta, F. 10901-10902
 Gutiérrez-Martínez, A. 9033
 Gutiérrez-Panizo, C. 599
 Gutman, M. 5853
 Gutman-Kobal, Z. 7384
 Gutmann, M. 5690
 Gutteridge, S. 10494
 Gutterman, Y. 6367, 9922
 Güvenilir, Y. A. 451
 Guyader, O. 1695
 Guyer, D. E. 165, 4048
 Guyot, B. 6405, 10926
 Guzowski, W. 7491
 Guzmán, G. 10604
 Guzmán, M. 323, 8681-8682
 Guzzo, F. 6048
 Gvarliani, N. 9524
 Gvozdenović, D. 1161, 3231, 8542
 Gworek, B. 2164
 Gwozdecki, J. 7565
 Gyurján, I. 6045
 Ha, T. M. 10590
 Ha Huy 5147
 Ha TaeMoon 10590
 Haack, B. 336, 8505
 Haaf, F. 4329
 Haas, C. J. 4362
 Haas, H. P. 4293
 Haba, M. 3046

- Habeebullah, B. 6949
 Häberlein, E. 1174
 Häberlein, I. 4062
 Habib, R. 1059, 3000, 4836, 8398
 Habiba, R. A. 4839
 Habte, M. 1855, 3540
 Hack, H. 4015-4016, 4447
 Hackett, G. 8411
 Hackney, C. R. 3567
 Hadar, Y. 2363
 Hadfield, K. A. 5489
 Hadley, P. 1262, 6677, 9425
 Haelterman, R. M. 169
 Haerah, A. 5555
 Haeseldonckx, L. 1062
 Hafeez-ur-Rehman 10391
 Haffner, K. 2799, 7591, 10286
 Haffner, K. E. 9121
 Hafiz Inayatullah 10691
 Hafiza Ahsan 10151
 Hafner, T. P. 6844
 Hagan, A. K. 4392
 Hagelin, K. 6048
 Hagelskjær, L. 4095
 Hagen, K. S. 729
 Hagenmaier, R. D. 5402
 Hager, A. 5047
 Hagg, M. 109
 Haggag, L. F. 6425, 6429, 6432, 8152
 Hagidimitriou, M. 3929
 Hagimori, M. 9420
 Hagiwara, H. 9450
 Hagiya, S. 5900
 Hague, N. G. M. 5286, 7588
 Hahlbrock, K. 1667
 Hahn, Y. I. 3145
 Hahn, B. H. 3321, 3425
 Hahn, M. G. 5915
 Hahn, W. S. 10522
 Hahn ByeongHee 3321
 Hahn ByungHee 3425
 Hahn WeonSik 10522
 Hai, T. 535, 4239
 Hairiah, K. 10039
 Hajdrowski, B. 10716
 Haji, F. N. P. 6021
 Hajimichael, J. 7484
 Hajirezaei, M. 4418
 Hajšlová, J. 6797
 Håkansson, G. 9541
 Hakerlerler, H. 9150
 Hakim, A. 7335
 Häkkinen, S. 5707
 Halavatau, S. 3636
 Halbreich, S. 7815
 Halbrooks, M. C. 7887
 Haldankar, P. M. 7994
 Hale, B. A. 1376
 Halepyati, A. S. 10660
 Halevy, A. H. 1511, 1550, 4288, 4302, 6086, 6179, 7063, 7399, 7858, 9763, 10713
 Halevy, S. 871
 Halgren, R. G. 9751
 Halim, G. M. A. 10438
 Hall, I. R. 3356
 Hall, J. B. 4654
 Hall, J. W. 2098, 2923, 4000
 Hall, M. A. 5573-5574, 5976
 Hall, W. R. 209
 Hallahan, D. L. 7144
 Halleux, D. de 4690
 Halliday, R. B. 8069
 Hallman, G. J. 1871
 Halloy, S. 9332
 Halstead, A. J. 2393
 Halsted, M. 7745
 Ham, I. K. 10545
 Ham, M. van der 8201
 Ham InKi 10545
 Hamad, B. S. 1056
 Hamada, A. M. 3251
 Hamada, M. 4440
 Hamada, T. 6289
 Hamamoto, H. 8516
 Hambridge, A. J. 5861, 6791
 Hamdi, S. 852
 Hamer, F. 693, 4373
 Hamernik, H. 2395
 Hamill, S. D. 8889
 Hamilton, J. G. C. 7144
 Hamilton, W. D. O. 8687
 Hamilton-Kemp, T. R. 5911
 Hammad, A. H. A. 1943
 Hammad, H. H. 9771-9772
 Hamman, R. A., Jr. 6693
 Hammer, M. 10052
 Hammer, P. A. 1549, 6205, 7087
 Hammer, P. E. 7098
 Hammer, S. 673
 Hammerton, R. D. 5945
 Hammond, D. J. 6730
 Hammond, J. 1524
 Hámori, S. J. 8282
 Hamoud, M. A. 9607
 Hamrick, D. 5530
 Hamson, A. R. 2702
 Hamza, F. 4119
 Hamza, M. A. 10327
 Hamzah, Z. 9082
 Han, B. H. 6112, 10629, 10732
 Han, B. W. 4320, 10407
 Han, B. Y. 2758
 Han, D. H. 10347, 10351, 10655
 Han, J. G. 10665
 Han, J. S. 3434
 Han, J. W. 10241
 Han, K. P. 1369, 3432
 Han, L. 5516
 Han, Q. 5868
 Han, Q. F. 155
 Han, Q. Q. 5674
 Han, R. H. 2633
 Han, S. H. 10775
 Han, S. K. 7341
 Han, S. S. 1594
 Han, S. U. 7033
 Han, S. W. 8806
 Han, S. Z. 3254
 Han, T. 6627
 Han, W. Y. 6456
 Han, X. 1349, 3163
 Han, Y. J. 6037
 Han, Y. S. 1188, 2041, 10274
 Han, Y. Y. 3419, 10725-10726
 Han, Z. H. 50, 1908, 1953
 Han BaoYu 2758
 Han BiWen 4320, 10407
 Han BongHee 6112, 10629, 10732
 Han DongHo 10655
 Han DongHyun 10347, 10351
 Han JeamWha 10241
 Han JiangGuo 10665
 Han JongSu 3434
 Han KyoPhill 1369
 Han KyuPyong 3432
 Han Qing 5868
 Han QingFang 155
 Han QiQing 5674
 Han SangWook 8806
 Han ShanHua 10775
 Han SiewKing 7341
 Han SuZhong 3254
 Han Tao 6627
 Han WenYan 6456
 Han Xu 3163
 Han YaShan 1188, 2041, 10274
 Han YounYol 3419, 10725-10726
 Han ZhenHai 50, 1908, 1953
 Hanada, K. 5092, 8655
 Hanada, Y. 5920
 Hanamashetti, S. I. 1840
 Hanawati, R. 1743
 Hanchinamani, C. N. 8718-8720
 Hancock, J. 1258, 3931
 Hancock, J. F. 10284
 Hand, D. J. 3278
 Hand, D. W. 5170
 Hand, P. 8333
 Handa, A. K. 2820, 8694
 Handa, T. 9781
 Handoo, G. M. 1135
 Handreck, K. A. 1546, 3505
 Handro, W. 8826
 Handros, A. 6947
 Handschack, M. 8307
 Hanelt, P. 2410, 8512
 Hanenberg, A. 2539
 Hang, G. M. 6487
 Hang, Y. P. 9102
 Hang YiPing 9102
 Hanisak, M. D. 10809
 Hänish ten Cate, C. H. 10727
 Hanke, A. 10368
 Hanke, D. E. 5501, 10981
 Hanks, G. R. 9707, 10651
 Hanlon, E. 5076
 Hanna, H. Y. 5085, 5901
 Hannachi, C. 1806
 Hannah, M. A. 5170
 Hannan, A. 7373
 Hannan, P. J. 457, 3193
 Hannan-Jones, M. A. 2506
 Hannapel, D. J. 4246
 Hannon, D. P. 1584
 Hannweg, K. 10778
 Hano, Y. 1777
 Hansen, A. P. 5935
 Hansen, E. E. 5816
 Hansen, H. T. 10611
 Hansen, J. 3492, 10723
 Hansen, K. R. 1892
 Hansen, L. N. 10635
 Hansen, M. 2189
 Hansen, P. 226, 2875, 3022, 5735, 9201, 10117
 Hanson, A. D. 3113
 Hanson, C. 5224, 7040
 Hanson, E. 3819
 Hansz, J. 6278
 Hao, B. Z. 943
 Hao, L. F. 4145
 Hao, R. 6665
 Hao, R. D. 1155
 Hao BingZhong 943
 Hao LianFang 4145
 Hao Rui 6665
 Hao RuiDong 1155
 Happ, I. 7615-7616
 Haq, G. N. 7373
 Haq, M. I. 3690
 Haq, Q. N. 8024
 Haque, Md. M. 4208
 Haque, N. M. M. 1426
 Hara, A. H. 591, 653
 Hara, H. 2939
 Hara, M. 3388, 3420, 8840
 Hara, N. 7101
 Hara, S. 779
 Hara, T. 1438, 10577
 Hara, Y. 6567, 7364, 7366-7369
 Hara-Nishimura, I. 415, 5914, 7731
 Harada, A. 8729, 8732
 Harada, H. 8325
 Harada, K. 4650
 Harada, T. 1185, 3101, 3511, 4969, 5062, 6002, 8514, 10119, 10512
 Haraguchi, T. 4689
 Haramaty, E. 9540
 Harangozó, T. 9325
 Harasawa, A. 5262
 Haraux, F. 2257
 Harbaugh, B. K. 1436, 4299, 4426
 Hardgrave, M. 3171, 3173
 Hardie, D. G. 2187
 Hardie, W. J. 5766, 10346
 Hardin, M. E. 2965
 Hardman, J. M. 114, 1967
 Hardman, J. R. P. 2587
 Hardt, G. 4347-4349
 Härdter, R. 2183
 Hardy, J. 4487
 Hardy, S. 9114
 Harel, M. 2901
 Harender Raj 6909
 Hargreaves, P. A. 4477
 Hari Om 464
 Hari Singh 3121, 8617
 Hariharan, M. 4454, 7178
 Harikrishnan, K. N. 7178
 Hariscain, P. 8485
 Harish Kumar 2590, 4497
 Harish Singh 7153
 Haritatos, E. 6418
 Harkavi-Rakover, Y. 2822
 Harkema, H. 6128
 Harker, F. R. 4798
 Harker, M. 1703
 Harker, R. 218
 Härkönen, M. 2332
 Harmer, R. 438
 Harmon, A. C. 10400
 Harms, H. 6729
 Harms, V. L. 640
 Haroon-ur-Rashid 148
 Harper, H. S. 4407
 Harper, J. K. 92, 4940
 Harpham, N. V. J. 5573-5574, 5976
 Harren, F. J. M. 2312, 2318, 5577
 Harries, H. C. 2687, 6393
 Harriman, M. 3173
 Harrington, K. C. 9185, 9693
 Harrington, R. 2443
 Harris, C. M. 5038
 Harris, C. V. 9943
 Harris, G. 10517
 Harris, J. R. 5280
 Harris, M. A. 4397
 Harris, P. J. 2737
 Harris, P. J. C. 4429
 Harris, W. 4274
 Harrison, H. F., Jr. 1327
 Harrison, J. 3942, 9366
 Harrison, P. A. 1304, 4983
 Harrison, R. B. 8673, 9427
 Harrison-Murray, R. S. 2480, 9179
 Harst, M. 5753, 10036
 Hart, D. 5897
 Hart, H. 't 4359
 Hart, K. H. 3446
 Hartemink, A. E. 2534
 Harter, K. 4438
 Hartingsveldt, H. J. van 5604
 Hartley, G. 9746
 Hartman, G. L. 3289
 Hartman, T. G. 7885
 Hartmann, C. 5498
 Hartmann, H. D. 10763
 Hartmann, M. A. 6748
 Hartmann, W. 1174, 2032, 6639
 Hartog, G. den 1230
 Hartung, W. 1679
 Hartz, T. K. 3072
 Haruki, K. 10647-10648
 Harvey, G. 2077, 2096, 8459
 Harvey, W. 5037
 Harwood, J. L. 1710, 3132
 Harwood, K. 670
 Haryati, T. 2729
 Hasabo, S. A. 1729
 Hasan, M. A. 853, 950
 Haschke, H. P. 5972
 Hasegawa, C. 7162, 8026
 Hasegawa, K. 1265, 2593, 2704, 7116
 Hasegawa, P. M. 8481
 Hasegawa, S. 833, 5410
 Hasegawa, T. 8541
 Haselberg, C. von 7194
 Häseli, A. 110
 Häser, M. 10182
 Hashem, A. R. 5710
 Hashimoto, G. 607
 Hashimoto, K. 8586
 Hashimoto, T. 2301, 4513, 6335
 Hashimoto, Y. 514, 1904, 5885, 6073, 8077, 9024
 Hashmi, R. A. 8848
 Haska, N. 976, 983
 Haskal, A. 8102
 Haskett, J. D. 4233
 Haslam, E. 6519
 Hasler, T. 7440
 Hasnaoui, A. 1970
 Hassadeh 2110, 2898
 Hassan, A. M. 4173
 Hassan, H. A. 9771-9772
 Hassan, I. 1621, 3478
 Hassan, M. M. 9898
 Hassan, M. R. 1557
 Hassan, S. M. 7042

- Hassanein, R. A. 9494
Hasselt, P. R. van 5110
Hassib, M. 6429
Hassouna, M. 852
Hasukawa, H. 10854
Hata, T. Y. 591, 653
Hatakeyama, Y. 5199
Hatami, A. 6359
Hatanaka, T. 4601
Hatano, K. 6335
Hatano, T. 5516
Hatch, M. D. 4258, 9853
Hately, A. M. 9193
Hathout, T. A. 9604-9605
Hatipoğlu, A. 9650
Hatou, K. 2301
Hatsukade, M. 4352
Hatt Graham, H. A. 2300
Hattmer-Frey, H. A. 5771
Hattendorf, M. J. 9354
Hatterman-Valenti, H. 1581, 8745
Hattingh, V. 3590, 8970
Hatzfeld, W. D. 4060
Haufe, M. 255
Haunerland, N. H. 5139
Haunold, A. 4305-4306
Hauptmann, S. 4447
Haury, A. 4493
Hausbeck, M. 10623
Hausbeck, M. K. 720, 9672
Hauschild, T. 5937
Hausdorf, H. 7963
Hause, B. 5014
Hauser, M. 4111, 10401
Hausman, J. F. 8389
Havanagi, G. V. 3244
Havel, L. 5919
Hawkes, T. 3132
Hay, F. R. 4459
Hay, R. L. 2135
Hayakawa, I. 8668
Hayakawa, K. 458
Hayashi, F. 4366
Hayashi, G. 3260, 3305, 3310, 8544, 8641, 8667
Hayashi, K. 779, 6073
Hayashi, M. 5914, 6833
Hayashi, T. 6096
Hayashi, Y. 9633
Hayat, R. 6641
Hayata, Y. 131, 374-375, 2710, 8144
Hayden, R. A. 4743, 4752
Haydon, G. F. 854, 868, 4540
Hayes, M. J. 342
Hayes, R. 2467
Haymoğlu, S. 872
Haynes, J. G. 5183
Haynes, Y. 8318
Hazarika, B. N. 4437, 9846
He, C. H. 2183
He, D. X. 2474
He, H. J. 4611
He, J. 3608
He, J. Q. 10467
He, K. Z. 9904
He, L. Y. 7809
He, L. Z. 657
He, M. Z. 8960
He, P. C. 3030, 3973
He, Q. B. 1482
He, Q. Y. 879
He, S. A. 9133
He, S. L. 955
He, T. F. 10825
He, T. X. 2183
He, W. 1475, 2350
He, W. B. 6975
He, X. D. 8814
He, X. H. 9181
He, Y. J. 302, 2211
He, Y. Q. 4222
He, Z. J. 4010
He ChengHui 2183
He DongXiang 2474
He HongJun 4611
He JianQun 10467
He KeZhen 9904
He LiYuan 7809
He LiZhen 657
He PuChao 3973
He QiongYing 879
He ShanAn 9133
He TianXiu 2183
He WenBin 6975
He XiaoDi 8814
He XiaoHong 9181
He YiQing 4222
He YuJiong 302, 2211
He ZhengJin 4010
Heaney, R. K. 8554
Heath, M. C. 568
Heath, R. L. 7010
Heath, R. R. 3729, 7691-7692
Heather, N. W. 5450, 10865
Heaton, J. W. 6518
Hebb, J. 5374
Hebbar, K. B. 9602
Hebbar, R. C. 2324
Heber, U. 2144, 4111, 4970, 7121, 9673, 10401
Heblin, D. 318
Hebshi, E. A. 10531
Heckman, J. R. 4099, 7408
Heckmann, H. 9453
Hedau, G. B. 337
Hedden, P. 1400
Hedderley, D. 7512
Hedley, L. E. 6320
Hedley, M. J. 380
Hefnawy, M. M. 528
Hegde, S. 4425
Hegde, S. G. 7381
Hegedűs, L. 7615-7616
Hegwood, C. P. 63, 6725, 8660
Heiberg, N. 1194, 8408
Heide, L. 10790
Heide, O. M. 4308
Heijden, G. W. A. M. van der 3341
Heijden, R. van der 4413
Heilman, J. L. 8464
Heimler, D. 2650, 9911
Heineke, D. 10404
Heinemann, P. H. 5632, 6589
Heinen, M. 3127, 3273, 4991
Heiniger, U. 168
Heinrichs, H. 7286
Heins, R. D. 6129, 9566, 9704, 9780
Heinzen, H. 1857
Heinzié, Y. 8456
Heisel, F. 10721
Heitz, J. R. 7397
Hejnowicz, Z. 1569, 2411, 4123, 6111
Helail, B. M. 7213
Helal, H. 6346
Helali, O. H. 7335
Heldt, H. W. 10404
Heleba, D. A. 2372
Helfer, S. 7092
Hell, B. ter 9647
Helle, M. 7419
Helleboid, S. 1303
Hellgren, O. 6015
Hellín, E. 6330, 9892
Hellmann, M. 66
Helmy, L. M. 9547
Helmy, Y. H. 6026
Helmy, Y. I. 9501-9502
Heloir, M. C. 8389
Helsley, C. 7895
Hemalatha, C. 5962
Hembry, J. K. 377
Hemeng, O. B. 1784, 5459
Hemeryck, E. 7402
Hemphill, J. 10037
Hemphill, R. 10037
Hemptinne, J. L. 1963
Hemsley, R. J. 5574, 5976
Hendricks, L. 3754
Hendricks, L. C. 2852, 9330
Hendriks, J. H. M. 9153
Hendriks, L. 9647, 10611
Hendry, G. A. F. 420
Hengeler, J. 199
Henkel, R. 10784
Henkel, T. 1614
Henley, R. W. 5180
Hennebert, G. L. 8735
Henning, B. 4487
Henning, J. A. G. 9664
Hennion, B. 7583, 8423
Henny, R. J. 5278, 5288, 7104, 7925
Henry, C. L. 8673, 9427
Henry, F. 6820
Henry, J. H. 5296
Henry, J. M. 8805
Hensel, D. R. 4965
Henson, C. A. 5979
Henson, D. J. 2623
Henten, E. J. van 2167
Henz, G. P. 7726
Henze, J. 4845, 5442
Henzler, T. 2434
Hepaksoy, S. 9319, 9327
Hepler, P. K. 7020
Heraux, F. 1549
Herbert, L. C. 2877
Herbold, J. 6511
Herbots, A. 8290
Herbst, M. 4453
Herce, C. de 6202
Herderich, M. 8172
Heredia, A. 2581
Heredia, O. S. 10748
Herjavec, S. 10352
Herman, T. J. B. 9599
Hermann, G. 9543
Hermans, C. 1610
Hermans, J. 1610, 10706
Hermans, J. M. H. 4268
Hermoso, J. M. 2582
Hernáiz, P. J. 2280
Hernández, A. 4190
Hernández, C. 5072, 7313, 10934
Hernández, C. E. 8115
Hernández, E. 1802
Hernández, F. 7676, 7866
Hernández, F. M. 10984
Hernandez, G. 1583
Hernández, G. A. 5193
Hernández, J. 332, 3586, 5376, 7411
Hernández, J. A. 9892
Hernández, L. E. 1391, 8615
Hernandez, M. 3200
Hernández-Arana, A. 4642
Hernández-Cortés, J. A. 6330
Hernández Méndez, M. T. 6883-6884
Hernández-Piñero, J. L. 744
Hernández Ruipérez, F. 1537
Herndon, C. N. 7058, 8837
Herold, B. 9448
Herppich, M. 3453
Herppich, W. B. 3453
Herregods, M. 57, 4699, 5626, 6036, 7433, 9156, 9211
Herrera, E. A. 195, 197-198, 200
Herrera, J. 1396
Herrera, O. 4294
Herrera, R. 2379
Herrera, S. 4896
Herrera-Estrella, A. 6987
Herrero, M. 6644, 8334
Herrick, T. A. 6082
Herrmann, K. 4596
Herrmann, K. M. 3219
Herrmann, R. G. 7679
Hershenhorn, Y. 3593
Hershko, V. 8696
Hertelendy, P. 7808
Hertogh, A. A. de 4328
Hertogh, A. de 10038
Hertzog, D. P. 10343
Hess, A. 1593
Hess, B. 8304
Hess, M. 4015-4016
Hess, T. M. 233
Hesse, M. 8017, 8025
Hetherington, R. 1877
Hettterscheid, W. L. A. 3703
Hetz, E. 6290, 10323
Hetz H., E. 3006, 3026, 7593
Hetzroni, A. 4898
Heuer, S. 9739
Heungens, A. 2481-2482
Heursel, J. 5267
Heuvel, W. J. A. van den 5870
Heuvelink, E. 3259, 4687, 5109, 6903
Hew, C. S. 703, 2445, 5254, 6178
Hewage, K. S. 4586, 7278
Hewedy, A. R. 6907
Hewett, E. W. 2918, 3001, 9338
Hewett, H. M. 6238, 6241
Hewitt, C. N. 295
Hewitt, J. 9703
Heydari, H. 2102
Heye, U. 5609
Heyes, J. A. 6626
Heyn, J. 5322
Heywood, V. H. 3699
Hibben, C. R. 10733
Hick, A. J. 9498
Hickey, K. D. 3786, 3805, 5628
Hicklenton, P. R. 4303, 8873
Hickman, J. C. 4661
Hidaka, T. 5422, 7218
Hidalgo Fernández, P. 8017
Hidano, Y. 1942
Hidden Valley Plantations 6352
Hidding, A. P. 2797
Hideg, E. 5971
Hidén, C. 1541
Hieke, S. 9286
Hiero, J. del 315
Higaki, M. 2354
Higashimura, Y. 10754-10755
Higashio, H. 5984
Higgins, S. S. 1934, 9266
Highley, E. 4665
Higo, M. 733
Hijwegen, T. 7736
Hikasa, Y. 4183
Hikosaka, K. 5173
Hilaire, C. 4
Hilali, S. 7251
Hilbert, J. L. 1303, 4980
Hildebrand, D. 5911
Hildebrand, D. F. 4121
Hildenhagen, R. 341
Hilhorst, H. W. M. 4206, 8652
Hilje, L. 2293-2294, 8680
Hill, D. E. 7699, 7728
Hill, L. M. 1398
Hill, S. A. 4585
Hill, W. B. 7536
Hille, A. 1593, 6162
Hillhouse, C. J. 2298
Hilpus, I. 7862
Himelrick, D. G. 7774, 9796
Himmelreich, U. 467
Himmelsbach, J. 1058
Hin, S. E. 703
Hind, N. 3408, 7978
Hino, A. 164, 214, 9402
Hinton, T. G. 5001
Hinz, G. 453, 5972, 6873
Hippe, C. 1923, 1965
Hirabayashi, T. 4614
Hirai, H. 537
Hirai, M. 536
Hiraide, A. 5619
Hirakawa, N. 869, 2656
Hiramasu, T. 5182
Hirano, K. 2106, 9406, 9409
Hirano, T. 10065
Hiraoka, M. 6465
Hirasawa, E. 1399, 4287, 10500
Hirasawa, M. 6767, 6769
Hirasawa, T. 3218
Hirata, O. 10080
Hirata, S. 4013
Hirata, T. 5309
Hirazawa, H. 6408
Hirimburegama, K. 8819, 10792
Hiroaki, Y. 4088
Hirose, D. 4646, 7362
Hirose, K. 5367
Hirota, R. 164
Hirsch, A. M. 3912
Hirschberg, J. 1421
Hirschfeld, D. J. 3992
Hirst, P. M. 86, 1939-1940, 3780, 4741, 7465
Hisajima, S. 982

- Hiscock, S. J. 4114
 Hitchmough, J. 10052
 Hitimana, L. 5457
 Hittalmani, S. V. 3734
 Hiwale, S. S. 8168
 Hiyama, H. 190
 Hjelle, K. L. 5329
 Hluchý, M. 2092
 Hmamouchi, M. 309, 3996, 9405
 Ho, C. T. 8154
 Ho, L. C. 2304, 3284, 5103
 Ho, M. 10855
 Ho, S. H. 891
 Hoagland, R. E. 6889
 Hoang Son 5147
 Hoberg, E. 3023
 Hobman, F. 2640
 Hochmuth, B. 5484
 Hochmuth, G. 5076, 5484
 Hochmuth, G. J. 3075, 3942, 9366
 Hoda, M. N. 10948
 Hoddle, M. S. 7954
 Hodges, D. M. 7703
 Hodges, L. 1409
 Hodgkinson, M. C. 8947
 Hodgson, E. 7902
 Hodun, M. 3782
 Hoedys, L. B. 5156
 Hoek, H. van der 6586
 Hoek, J. 9430
 Hoekstra, L. 2132
 Hoepfner, A. S. 5706
 Hoesch, L. 296
 Hoffman, A. 1744
 Hoffman, M. 11
 Hoffmann, A. 10285
 Hoffmann, J. J. 1702, 10814
 Hoffmann, M. P. 3095
 Hoffmann, W. 9626
 Hofmaier, C. 112
 Hofman, P. 8171
 Hofmann, S. 227, 255, 3004
 Hofmann, U. 2093
 Hofte, M. 2334
 Hogmire, H. W. 137, 2896, 4770, 6569
 Hogue, E. 9270
 Hogue, E. J. 1956, 2001, 2867, 2877
 Hoh, B. 453, 5972
 Hohl, I. 453
 Hohlfield, B. 2930
 Höhn, E. 2799, 4729, 8375, 9121-9122, 9311, 10047
 Höhn, H. 1193, 1966, 6565, 6621
 Hohnstrater, C. H. 3445
 Hoihtink, H. A. J. 9151
 Hojden, B. 769
 Hol, G. M. G. M. 8195
 Holcomb, E. J. 1627, 6120-6121
 Holcroft, D. M. 3381, 3404
 Holden, M. A. 9371
 Holden, M. J. 3293
 Holford, P. 8936, 10628
 Holla, M. 4461
 Holland, D. 834
 Holland, M. G. 5573, 5976
 Holland, N. 6027
 Holland, P. T. 3909
 Hollingsworth, M. H. 9041
 Hollósy, F. 8898
 Holmdal, J. A. 8268
 Holmes, M. A. 801, 3574
 Holmes, S. 10718
 Holmes, S. J. 3479
 Holmesley, G. E. 10679
 Holst, G. J. van 552, 631
 Holt, H. A. 9774
 Holtkamp, H. 2389
 Holubowicz, T. 9375
 Holzapfel, C. W. 4453
 Hölzl, J. 1672
 Hom, A. 3754
 Homma, H. 8552
 Homma, S. 5619, 6407, 10163, 10930
 Homma, T. 8000
 Hommes, M. 341, 1315, 7710
 Hommi, Y. 2942, 8347
 Honami, N. 4684
 Honda, C. 1407, 5067
 Honda, T. 1544, 1558, 1597, 4381, 6101, 6110, 6115, 8796, 10638
 Honda, Y. 5838, 6138
 Honeyborne, G. E. 10240
 Hong, B. H. 10018
 Hong, C. J. 10652
 Hong, D. L. J. 3612
 Hong, D. Y. 7118
 Hong, J. H. 1473, 5129, 10565
 Hong, J. S. 10116, 10139
 Hong, K. H. 10241
 Hong, K. J. 2831
 Hong, K. S. 3082
 Hong, S. B. 9449, 9470-9471
 Hong, S. J. 1473, 5886, 10568-10571
 Hong, S. S. 10272
 Hong, S. T. 8973
 Hong, S. Y. 2180
 Hong, W. 4952
 Hong, Y. K. 3380, 10545
 Hong, Y. P. 10272
 Hong ByungHee 10018
 Hong ChongJian 10652
 Hong DaLang 3612
 Hong DeYuan 7118
 Hong JaeSeong 10116
 Hong JeaSeong 10139
 Hong JiHeun 1473, 10565
 Hong KiJeong 2831
 Hong KyungHy 10241
 Hong SeJin 1473, 5886, 10568-10571
 Hong SeongSig 10272
 Hong SeungBeom 9449, 9470-9471
 Hong ShiTing 8973
 Hong Wang 4952
 Hong YoonPyo 10272
 Hong YuKi 3380, 10545
 Hongo, A. 6115
 Honjo, T. 7230
 Honrubia, M. 3372
 Hooker, J. E. 203
 Hookham, N. 9520
 Hoover, D. G. 4255
 Hoover, E. E. 4747
 Hopkirk, G. 8399
 Höpli, H. U. 1193, 1966, 6565, 6621
 Hopp, W. 5142
 Hoppe, B. 8887
 Hopper, D. A. 6204-6205
 Hoppesch, J. P. 2391
 Hoque, M. A. 1822
 Hoque, M. M. 3250, 7133
 Horan, I. 724
 Horbowicz, M. 2433, 3436, 4964, 5081
 Hore, J. K. 1828, 2782, 3696, 4590, 9845
 Horen, L. G. J. van 2341
 Horgan, G. W. 5855
 Horgen, P. A. 568
 Hori, H. 10119
 Horie, H. 9481
 Horie, Y. 6164
 Horimoto, K. 4013
 Horino, Y. 7787
 Horiuchi, S. 835, 5743, 8482, 10854
 Hormann, H. 6770
 Hormaza, J. I. 8334, 9316
 Hormes, E. 10609
 Horn, E. 7594, 7600
 Horn, W. 8178
 Horner, S. F. 10979
 Hornero-Méndez, D. 1761
 Hornig, R. 2869, 2879, 3778, 4764, 10113
 Horst, G. L. 8797, 10664
 Horti, K. 9617
 Horton, D. R. 8368
 Horton, P. 3111, 6280
 Hortst, G. L. 1582
 HortTechnology 7393
 Horthyński, J. A. 3934
 Horváth, G. 5971
 Hosaka, A. 1424
 Hosamani, K. M. 10804
 Hoshi, T. 4057
 Hoshikawa, K. 455, 6874
 Hoshina, T. 8671
 Hosmani, M. M. 5994
 Hosokawa, K. 638-639, 1551, 6127, 7893
 Hosoki, T. 621, 1564, 8663, 10647-10648
 Hoson, T. 7714, 8557
 Hosono, T. 9422
 Hoss de Moraes, L. A. 7207
 Hossaert-McKey, M. 3827
 Hossain, A. E. 4607
 Hossain, A. K. M. A. 4607, 5799
 Hossain, B. 512
 Hossain, M. 2292, 8997
 Hossain, M. A. 4132
 Hossain, M. M. 1426, 3327
 Hossain, S. 10438
 Hossain, S. M. M. 4208
 Hossain, T. 8039
 Hostetter, D. L. 1336
 Hotze, M. 8914
 Hou, F. 1348, 3183
 Hou, F. M. 7019
 Hou, J. Z. 4311
 Hou, R. L. 10367
 Hou, R. Y. 4218
 Hou, X. L. 376, 3138
 Hou, Y. J. 6460
 Hou, Y. M. 827
 Hou FangMei 7019
 Hou Feng 3183
 Hou JianZhong 4311
 Hou RuiLan 10367
 Hou RuiYu 4218
 Hou XiLin 3138
 Hou YuJia 6460
 Houck, L. G. 7225
 Hougen-Eitzman, D. 1244
 Houten, Y. M. van 8632
 Houter, J. 9187, 10233
 Houwe, I. van den 3643
 Hove, L. W. A. van 8843
 Hövel, B. 7474
 Hovland, O. 93
 Howald, W. N. 2417, 7885
 Howard, B. H. 33, 2480, 9770
 Howe, D. G. 10683
 Howe, F. 2369
 Howe, T. K. 1434, 4084
 Howell, G. S. 3997-3998
 Howell, J. F. 1097
 Howells, B. W. 5973
 Howlett, A. E. 7879
 Høyer, L. 9652, 9682, 9788
 Hoyos, P. 9464
 Hoyos de Martens, V. 1863
 Hoyos Echevarria, P. 7017
 Hoyt, G. D. 2184, 7702
 Hráskó-Medgyesi, K. 6042
 Hrazdina, G. 6657
 Hribar, J. 2799, 7504, 7508, 9121, 9208, 9917
 Hřivná, L. 7475
 Hrotko, K. 9182
 Hruschka, W. R. 6592
 Hsiang, T. 8808
 Hsiao, J. Y. 2496
 Hsieh, C. F. 473
 Hsieh, R. M. 2450
 Hsieh, S. C. 6428
 Hsieh, T. H. 772
 Hsieh, W. H. 4249
 Hsieh ChingFang 473
 Hsieh ShanChou 6428
 Hsieh TsungHsin 772
 Hsu, C. I. 4271
 Hsu, H. T. 2617
 Hsu, J. C. 840, 2500, 7970
 Hsu, K. N. 473
 Hsu, M. M. 4610
 Hsu, S. H. 6428
 Hsu, Y. P. 6783
 Hsu ChyongIng 4271
 Hsu HsinTszu 2617
 Hsu JenChieh 840, 2500, 7970
 Hsu KuoNan 473
 Hsu MiaoMiao 4610
 Hsu SenHsiung 6428
 Hsu YuanPei 6783
 Hu, A. T. 1330
 Hu, B. K. S. 591, 653, 932
 Hu, C. K. 7757
 Hu, D. B. 2552
 Hu, G. Q. 1719
 Hu, H. 4018
 Hu, H. N. 5775, 7445
 Hu, J. C. 2315
 Hu, J. G. 2941, 8954
 Hu, J. L. 158, 1131
 Hu, N. Z. 4414
 Hu, Q. X. 10137
 Hu, R. W. 4531
 Hu, S. X. 2758
 Hu, S. Y. 2415, 10658
 Hu, T. K. 1166
 Hu, W. D. 3837
 Hu, X. B. 8245
 Hu, X. Q. 3611
 Hu, Y. H. 2927, 4323
 Hu, Y. L. 70
 Hu, Y. X. 8900
 Hu, Z. 1697
 Hu, Z. L. 9283
 Hu, Z. M. 739
 Hu, Z. Y. 348, 1468, 6943
 Hu AiTang 1330
 Hu DongBo 2552
 Hu GuoQian 1719
 Hu HeNing 5775, 7445
 Hu Hong 4018
 Hu JianCheng 2315
 Hu JianGuo 8954
 Hu JinLiang 158, 1131
 Hu NanZhen 4414
 Hu QingXiang 10137
 Hu RenWei 4531
 Hu ShiYi 2415, 10658
 Hu ShuXia 2758
 Hu TzerKaun 1166
 Hu WeiDong 3837
 Hu XiaoBao 8245
 Hu YanLi 70
 Hu YongHong 2927, 4323
 Hu YuXiang 8900
 Hu ZhengLing 9283
 Hu ZhiYuan 348, 1468, 6943
 Hu Zhong 1697
 Hua, B. G. 6832
 Hua, X. Z. 2315
 Hua BaoGuang 6832
 Hua XueZeng 2315
 Huancaruna Perales, E. 6290
 Huang, A. Z. 2758
 Huang, B. H. 3164
 Huang, B. L. 1638
 Huang, B. Q. 758
 Huang, B. Z. 4584
 Huang, C. L. 10344
 Huang, D. F. 1502
 Huang, D. G. 7235
 Huang, F. S. 10840
 Huang, H. 6577, 6619
 Huang, H. B. 886, 3615, 3651, 3677, 4544, 7235
 Huang, H. W. 4866, 10198
 Huang, H. X. 8925
 Huang, J. 133
 Huang, J. C. 930
 Huang, J. H. 2523, 3616, 7238
 Huang, J. S. 3616, 7238
 Huang, J. W. 3810, 7757
 Huang, L. C. 1638
 Huang, L. S. 5671, 5673
 Huang, M. H. 1029
 Huang, M. T. 7370
 Huang, P. L. 1776
 Huang, Q. 1826, 4100
 Huang, Q. Y. 158, 1131
 Huang, R. H. 4863
 Huang, S. C. 3021
 Huang, S. M. 7340
 Huang, S. Q. 10831
 Huang, T. C. 772
 Huang, T. D. 123, 1100, 8285
 Huang, W. D. 1924, 1953
 Huang, W. F. 1508

- Huang, W. H. 4286
Huang, W. R. 5599
Huang, W. T. 3585
Huang, X. G. 5695
Huang, X. H. 7014, 10848
Huang, X. L. 4085
Huang, Y. G. 3509
Huang, Y. H. 3289
Huang, Y. J. 10228
Huang, Y. M. 6788
Huang, Z. Y. 1323
Huang AnZhi 2758
Huang BangHai 3164
Huang BingZhi 4584
Huang CongLin 10344
Huang DanFeng 1502
Huang DongGuang 7235
Huang Hai 6577, 6619
Huang HaiXin 8925
Huang HongWen 4866, 10198
Huang HuiBai 886, 3615, 3651, 3677, 4544, 7235
Huang Jian 133
Huang JinHua 3616, 7238
Huang JinSong 3616, 7238
Huang JunChao 930
Huang LiSen 5671
Huang MingHuei 1029
Huang MingTeh 7370
Huang PaoLin 1776
Huang Qing 1826, 4100
Huang QingYuan 158, 1131
Huang RenHuang 4863
Huang ShenMing 7340
Huang TianDong 123, 1100, 8285
Huang TsengChieng 772
Huang WeiDong 1924, 1953
Huang WeiHua 4286
Huang WeiTing 3585
Huang WenFang 1508
Huang XiangHui 7014
Huang XueLin 4085
Huang YongGao 3509
Huang YuanJi 10228
Hubáková, M. 2082, 5745, 6715, 7610
Hubbuck, C. 1857
Huber, D. J. 2284, 5051
Huber, D. M. 521
Huber, J. L. 3116, 8520
Huber, S. C. 3115-3116, 4977, 8520, 10400
Huberdeau, D. 1964
Hübner, G. 452
Hübstenberger, J. F. 5816
Hudge, V. S. 3977
Hudgins, E. 6959
Hudina, M. 10104-10105
Hudson, P. 8660
Hudson, W. G. 7423
Huelsman, M. F. 8494
Huerta Palacios, G. 3354, 3357
Huet, C. 1798
Huett, D. O. 4693
Huettel, R. N. 6014
Huff, A. 2237
Huffman, D. M. 6971
Hufton, C. A. 10411
Hugar, A. H. 7953
Hughes, H. 263, 2629, 5412
Hughes, H. G. 6546
Hughes, J. 127
Hughes, K. A. 68
Hughes, L. A. 1316
Huguency, P. 1421
Huguët, J. G. 4829, 8354
Huh, K. Y. 692, 10631
Huh KunYang 692, 10631
Hui, Y. H. 10042-10043
Huirne, R. B. M. 6093
Huisjes, G. 1662
Huiskamp, T. 3225, 8194
Huizen, R. van 5982
Hulamani, N. C. 1846, 3083, 7617, 9049, 10026, 10357
Hulewicz, T. 3934
Hull, J., Jr. 3798
Hull, L. A. 1092, 2962
Hulmani, N. C. 8146, 10999
Hulscher, M. 7021
Humanes, M. D. 8983
Humble, L. 3471
Hume, L. J. 5283
Hummel, R. L. 9485
Hummer, K. E. 6649, 6661
Humphreys, M. 45, 490
Humphries, E. G. 2219
Hunakubo, T. 6822
Hunault, G. 1492
Hundal, H. S. 10876
Hundsdoerfer, M. 6989
Hung, C. C. 10021
Hung, Y. C. 4049
Hunkár, M. 7638
Hunt, A. 6862
Hunte, C. 1385, 7751, 10498
Hunter, A. 1002
Hunter, D. M. 9290
Hunter, J. J. 9394
Hunter, M. 10764
Huo, G. H. 4443
Huo, J. S. 3894
Huo, Z. R. 1348, 3183
Huo GuangHua 4443
Huo JunSheng 3894
Huo ZhenRong 3183
Hurk, B. J. J. M. van den 9400
Hurley, C. 1817
Hurry, V. M. 6866
Hurst, P. L. 3193, 10515
Hurter, J. 3129
Husain, A. 7143, 9835
Husain, S. I. 5195
Husain, S. Z. 5321, 7878
Hüsemann, W. 5244
Husstein, A. 8422
Hussain, A. 10537
Hussain, A. K. M. A. 5101
Hussain, I. 597
Hussain, S. A. 8994, 10470, 10970
Hussain, T. 2628, 2772, 6902, 8578
Hussain Ahmad 684-685
Hussein, A. A. 6366
Hussein, A. R. 10349
Hussein, H. A. 463, 2122, 2321, 3227
Hussein, M. A. 3632-3633
Hussein, M. S. 6297, 8004, 8503, 9826, 9842
Hutchins, G. 8878
Hutton, R. J. 6625
Hüve, K. 9673
Huxley, P. 10039
Huygens, H. 5267
Huylenbroeck, J. M. van 689, 6163, 7027
Huynh Duc Nhan 5147
Huysamer, M. 3888
Hwang, A. S. 2617
Hwang, I. G. 8230
Hwang, I. T. 3082
Hwang, J. H. 3765, 6540
Hwang, J. M. 10523
Hwang, J. S. 10021
Hwang, M. J. 637
Hwang, S. C. 7269
Hwang, Y. K. 2297
Hwang, Y. Y. 9636
Hwang ASiang 2617
Hwang JaeMoon 10523
Hwang JeongHwan 3765, 6540
Hwang MoonJoo 637
Hwang YoonYeop 9636
Hylkema, H. J. 9430
Hyodo, H. 4666, 7712, 7868, 8556
Hyun, J. S. 2891
Hyun JaiSun 2891
Hyvärinen, S. 320
Iacono, F. 1253, 3991, 5761, 9387
Iancu, M. 8269
Iannicelli, V. 6535
Iannotta, N. 1762, 3623
Iarotkäia, L. 4737
Iavarone, E. 4883, 8424
Iba, Y. 5438
Ibacahe G., A. 7542, 7628
Ibaraki, Y. 6953
Ibarra, E. L. 9025
Iborra, M. R. 8628
Ibrahiem, T. A. 5381, 5393
Ibrahim, M. 7335
Ibrahim, M. A. 888
Ibrahim, M. E. 8042
Ibrahim, M. M. 7213
Ibrahim, N. A. 10601
Ibrahim, R. K. 8031
Ibrahim, S. B. 10327, 10349
Ibrahim, T. A. 2621
Ibrahim, Z. I. 2826, 8282-8283
Ichi, T. 10754-10755
Ichihara, A. 5121
Ichikawa, K. 6822
Ichikawa, Y. 10698
Ichimura, K. 5486, 9420, 10453
Ichimura, M. 7723
Ichmura, K. 398
Idczak, E. 877
Ido, Y. 2943, 8668, 8746
Idso, S. B. 2613
Ieki, H. 2042
Ieperen, W. van 4228, 6934
Igarashi, I. 2056
Igarashi, S. 6731
Igile, G. O. 2176
Iglesias, C. 4192, 4390
Iglesias, E. 5505
Iglesias, L. 3256
Iglesias, R. 2709, 3275
Ignacenka, V. A. 765-766
Ignacimuthu, S. 4046
Ignat'eva, T. N. 5777
Ignatieva, M. 10052
Ignatova, S. I. 1432
Igounet, O. 3963, 6722
Iguchi, T. 9101
Ihlebeek, H. 7873
Iida, S. 1544, 6101
Iijima, A. 8366
Iima, M. 5350
Iiyama, K. 1500
Ikahu, J. M. K. 9844
Ikeda, A. 2943, 4888
Ikeda, H. 5485
Ikeda, K. 5163, 5513-5514, 7358
Ikeda, T. 7358, 8525, 10820
Ikeda, Y. 1479, 6420
Ikegami, K. 7881
Ikegaya, N. 9633
Ikemiya, H. 9872
Ikram, A. 938
Ikuta, M. 10119
Ilan, N. 4167
Ilango, R. V. J. 2757
Ilarslan, R. 6133
Ilbay, M. E. 6065, 6075
Illes, J. K. 595, 1595
Iliev, P. 5682
Ilieva, I. 4815
Ilieva, I. N. 9345
Iliinskaya, L. I. 520
Il'in, V. V. 6678
Ilin, Ž. 7674
Il'inskaya, G. I. 9439
Ilková, Z. 10309
İlter, E. 9382-9383, 10332-10333
Il'yasov, A. V. 10582
Im, D. J. 10789
Im DaeJoon 10789
Imada, S. 4183
Imada, T. 7907, 7910
Imahori, Y. 5399
Imai, H. 5876
Imai, T. 1647
Imaichi, R. 2834
Imamura, Y. 8786
Imanaka, M. 8519
Imani, Y. 6837
Imanishi, H. 3411, 3439, 5203, 8786, 10653
Imanishi, S. 2292
Imas, P. 3281
Imayoshi, Y. 10242
Imbroglini, G. 7421
Imeson, H. C. 2258
Imoto, M. 10510
Impens, I. 4163
Imre, C. 9137
Imre, L. 1085, 8293
Ina, K. 7081
Inaba, A. 3652, 4947, 6032, 8502, 8990, 10079-10080, 10222
Inaba, K. 9534, 10487
Inada, H. 9534
Inada, I. 2141
Inagaki, J. 7081
Inagaki, N. 4974
İnal, A. 3094, 7669, 8627
Inam-ul-Haq, M. 3374
Inamdar, J. A. 782
Inamori, Y. 5850
Inamoto, K. 3411
Inanaga, S. 8685
Inaoka, H. 6138
Inayatullah, H. 10691
İnden, H. 8822
India, Central Plantation Crops Research Institute 10057
India, National Horticultural Research and Development Foundation 8193
India, United Planters' Association of Southern India, Tea Scientific Department 3709
Infante, M. L. 9476
Informatore Agrario 1996, 2858, 2946, 3013, 3055, 6667-6669, 10205-10206
Infruitec 6612
İngall, B. A. 2112
İngestad, T. 6015
İngle, H. V. 10850
İnglese, P. 2947, 5425
İngram, D. L. 9006
İnligtingsbulletin - Instituut vir Tropiese en Subtropiese Gewasse 9891
İnnecco, R. 8750
İnnocenti, A. M. 559, 8101
İno, I. 7693
İnokuchi, N. 6068
İnooku, K. 399
İnoue, H. 774, 10819
İnoue, K. 374-375, 415, 2165, 4997
İnoue, M. 7784
İnoue, N. 10364
İnoue, T. 7160
İnque, Y. 1169
İnserra, R. N. 5186
İnsley, H. 2471
İntelisano, S. 3607
İnteramerican Society for Tropical Horticulture 13
International Dwarf Fruit Tree Association 16, 4667
International Plant Genetic Resources Institute 990, 7135
International Plant Propagators' Society 1007
International Society for Horticultural Science 21-22, 1006, 1010, 2797, 4666, 6477, 7399, 9120
International Society for Mushroom Science 1881
İntrieri, C. 307, 4914, 5765, 6683, 6702, 7597, 8437
İntrigliolo, F. 3607
İntropido, M. 1994
İnyang, I. D. 4931
İoannou, N. 8078
İoriatti, C. 1096, 2897, 2900
İorio, A. F. de 8535
İperti, G. 6202
İppolito, A. 7563
İqbal, M. M. 10252
İqbal, S. H. 9637
İqbal, S. M. M. 2748, 6441
İqbal Hussain 597, 5413
İrabagon, J. A. 1822
İreland, C. R. 8867
İreland, G. 2367
İreta, A. 9974
İrie, K. 4013
İrie, M. 6068
İrino, T. 9308

- Iriondo, J. M. 2329, 4280
 Irizarry, H. 881-882
 Iruilappan, I. 1276-1277, 9434
 Iruithayaraj, M. R. 7297
 Irvine, J. L. 5660
 Irving, D. E. 3153, 5988, 10456, 10730
 Irwin, J. B. 8836
 Isa, M. 2146, 4691
 Isac, V. 3938
 Isam, T. 5773
 Isfan, D. 2133-2134
 Ishac, Y. Z. 5954
 Ishak, M. S. 8896
 Ishibashi, K. 4310
 Ishida, J. S. 8258
 Ishida, K. 1424
 Ishida, M. 9717
 Ishida, N. 2807
 Ishigami, S. 10299
 Ishiguro, E. 2712, 2754, 3157-3158, 3673
 Ishihara, T. 3110
 Ishihata, K. 5433
 Ishii, K. 3110, 8518
 Ishii, R. 4355
 Ishii, S. 9632
 Ishii, T. 3587, 5377, 6047
 Ishikawa, K. 8502
 Ishikawa, S. 10119
 Ishikawa, T. 4059, 10403
 Ishikawa-Takano, Y. 4806
 Ishiki, Y. 4614
 Ishimaru, A. 9669
 Ishimaru, K. 252, 1214, 4310
 Ishiuchi, D. 6841, 9872
 Ishizawa, Y. 4809
 Ishizuka, K. 982, 5093, 7795
 Ishizuka, O. 8671
 Ishtaq, M. 684-685
 Ishtiaq, M. 10686
 Isidoro, E. 3246
 Isidoro, N. 3422
 Iskandar, I. K. 9722
 Islam, M. A. 4607
 Islam, M. J. 5799
 Islam, M. N. 6003
 Islam, M. O. 4132
 Islam, M. S. 3269, 7825-7826, 9612, 9614
 Islam, R. 7372, 8997, 10985
 Islam, Z. 9486
 Ismail, A. M. A. 10858
 Ismail, L. D. 8781
 Ismail, M. A. 5395
 Ismail, M. R. 495, 11021
 Ismail, S. 7342
 Ismail, S. M. 6916
 Ismail, Y. S. S. 2269, 2278
 Ismailov, A. I. 8894
 Ismoilov, M. T. 5583
 Isobe, M. 8600
 Israel, A. A. 6299, 8108
 Israeli, Y. 8120
 Issa, J. A. 2687
 Istrate, M. 8321
 Isufi, E. 7479
 Itai, A. 2657, 9916, 10237
 Itak, J. A. 10343
 Italy, Accademia dei Georgofili 8185
 Italy, Arbeitsgruppe für den Integrierten Obstbau in Südtirol 8200
 Italy, Istituto Sperimentale per la Valorizzazione Tecnologica dei Prodotti Agricoli, Milano 4672
 Italy, Südtiroler Beratungsring für Obst- und Weinbau 2789, 6532
 Itamura, H. 5436
 Ito, A. 10613-10614
 Ito, C. 4513, 6335
 Ito, H. 3186, 3267-3268, 4152, 7723, 10931
 Ito, M. 2833, 6380
 Ito, N. 8663
 Ito, S. 5876, 10457
 Ito, T. 531, 1404, 1551, 6781, 8635, 10510
 Ito, Y. 10674
 Itoh, A. 650
 Itoh, H. 4778
 Itoh, S. 1718
 Itoh, T. 5294
 Itzhaki, H. 3501
 Iváncsics, J. 9178, 10226
 Ivanishchev, V. V. 5978
 Ivanov, A. G. 4412
 Ivanov, S. 5606
 Ivanov, S. A. 3521
 Ivanov, V. B. 5021
 Ivanov, V. V. 7675
 Ivanov, Y. 5001
 Ivanova, D. 10249
 Ivanova, I. A. 8311
 Iveković, V. 10223
 Iversen, T. H. 5879
 Iwabuchi, H. 10186, 10242
 Iwabuchi, K. 4058
 Iwade, H. 2149, 6767
 Iwagaki, I. 4521, 5367, 8962, 10854
 Iwahashi, H. 7868
 Iwahori, S. 8076, 8361
 Iwai, S. 1596
 Iwamoto, Y. 5865
 Iwamura, H. 458
 Iwanaga, Y. 912
 Iwasaki, A. 385
 Iwasaki, G. 390
 Iwasaki, K. 6329, 9101
 Iwasaki, N. 2710, 5046, 5434, 8144
 Iwasaki, S. 9024
 Iwase, H. 3140
 Iwata, H. 8758
 Iwata, K. 6857, 7878
 Iwata, T. 9373
 Iyengar, B. R. V. 4505, 10910
 Izumi, H. 4118
 Izumi, S. 5309
 Izzo, R. 179, 2626
 J. A. & B. M. Bowden & Sons 5594
 Jaarsveld, E. van 10677
 Jaaska, V. 8588
 Jabbar, A. 7123
 Jablonska, L. 1055
 Jack, P. L. 10979
 Jäckel, B. 7948
 Jackman, R. L. 5131, 6041
 Jackson, A. 3377
 Jackson, C. G. 917
 Jackson, D. I. 2081, 3978, 10326
 Jackson, D. M. 5911
 Jackson, J. E. 4036
 Jackson, J. F. 73, 6473
 Jackson, L. E. 6779
 Jackson, M. 2839
 Jackson, M. B. 5111-5112, 10670
 Jackson, M. R. 5160
 Jackson, P. J. 7163
 Jackson, R. D. 1171
 Jacob, B. 839
 Jacob, H. 4344
 Jacob, J. J. s' 1631
 Jacob, J. L. 937, 947, 3683, 5508-5509, 10998
 Jacob, M. 587
 Jacob, S. 6823, 7741
 Jacob, T. K. 10921
 Jacob Mathew 10920
 Jacobs, C. M. J. 9400
 Jacobs, G. 3676, 3741-3742, 4330, 6130, 9963, 10968
 Jacobs, K. A. 7976
 Jacobs, S. 2903, 2963
 Jacobsen, H. J. 4175
 Jacobson, R. J. 8224
 Jacquemard, J. C. 2790
 Jacquemart, A. L. 5712
 Jacquemin, G. 10184-10185
 Jacyna, T. 3809, 9190
 Jadav, R. G. 1142
 Jadcuk, E. 2864, 2933-2934, 7458
 Jadhao, B. J. 7906
 Jadhav, M. S. 9714
 Jaen Contreras, D. 9877, 9881
 Jaenicke, H. 10054
 Jaffe, M. J. 530
 Jaffrin, A. 8860
 Jaffuel, S. 1988
 Jagadeesh, H. N. 6397
 Jagannathan, N. R. 7439
 Jagdish Lal 7068
 Jager, A. de 1116, 9122, 9206, 10166
 Jäger, A. K. 1306, 1706, 3124, 7026, 7109, 9802-9803, 10409-10410
 Jäger, E. 8172
 Jager, E. S. de 6309
 Jäger, H. J. 1377-1378
 Jäger, L. 6591
 Jaggi, R. C. 382
 Jaglan, R. S. 5871
 Jahagir Khan 10685
 Jahan, M. A. A. 3073, 3326
 Jahnke, S. 633
 Jaime, S. 2582
 Jain, A. K. 8911
 Jain, B. P. 5004
 Jain, N. K. 11004
 Jain, P. 5005
 Jain, P. K. 10525
 Jain, R. C. 10585
 Jain, S. 1766
 Jain, S. K. 1441, 5451, 9848
 Jain, S. M. 1864
 Jaiswal, U. L. 7331
 Jakhra, S. S. 340
 Jakhro, A. A. 4221
 Jakobsen, I. 5018
 Jakovljević, M. 3047, 3051
 Jakubowski, T. 4823, 8250
 Jaliani, N. Kh. 9966
 Jalmudin, K. 980
 Jamadagni, B. M. 8019
 Jamai, A. 555
 Jamal, M. A. 10724
 Jamart, G. 3503
 Jámor-Benczúr, E. 7918, 8775-8776, 8824
 James, C. M. 10979
 James, D. G. 1731
 James, P. 4975
 James, T. D. W. 8510
 Jameson, J. 7499
 Jameson, P. E. 4792, 5290, 7119, 8884
 Jamieson, A. R. 9358
 Jamir, N. S. 6370
 Jampen, M. 8375
 Jampoler, S. 336, 8505
 Jana, B. K. 2444, 7016, 10681
 Jana, S. K. 7236
 Janakiram, T. 7003
 Janas, R. 2330, 2519
 Jang, H. 3286
 Jang, K. H. 1328
 Jang, S. J. 10631
 Jang, W. C. 3069, 4463
 Jang SoodJin 10631
 Jang WonCheol 3069, 4463
 Jangandi, S. 3141
 Janick, J. 2856, 5335
 Jankiewicz, L. S. 875
 Janković, R. 1075, 8364
 Jankowski, W. J. 6348
 Janse, J. 418, 4734
 Jansen, M. 1205
 Jansen, W. A. G. M. 4731, 4758
 Jansma, J. E. 8783
 Janssen, A. 3366
 Janssen, L. H. J. 5110
 Janssen, L. L. F. 1891
 Janssen, M. 1385, 7751
 Janssens, M. 10047
 Janssens, M. F. M. 7782, 10076
 Jansson, G. 8702
 Jansson, R. K. 1335
 Jansz, E. R. 4595
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 Jaques, R. P. 1967
 Jaramillo N., J. E. 10358
 Jarausch, W. 8356
 Jarčakovskaja, S. 5700
 Jardon, F. 2809
 Jarocka, M. 5159
 Jarošik, V. 6824
 Järvan, M. 4948
 Järvinen, A. 3520
 Jasbir Kaur 9894
 Jasiulionis, R. 3329
 Jasper, W. J. 5709
 Jassal, N. S. 5785
 Jastrzębski, A. 3535
 Jasvir Singh 7991
 Jaudzems, V. G. 10346
 Jauh, G. Y. 9705
 Jauh GuangYuh 9705
 Jaumien, F. 8275
 Jauti Sharma 7929
 Javaid, I. 52
 Javed, M. A. 9961
 Javed, N. 4199
 Jawanda, J. S. 967
 Jay, M. 629, 1988, 2005, 6594, 7516, 9255, 9261, 10051
 Jay-Allemand, C. 5690, 5693
 Jayabalan, M. 780, 7187, 7374, 7947
 Jayachandran Nair, C. S. 1782
 Jayakody, J. A. A. M. 7350
 Jayakumar, R. 6949
 Jayasinghe, C. K. 9077
 Jayasundar, R. 7439
 Jayasuriya, K. E. 9077
 Jaydeb Ghosh 9555
 Jaye, R. 8662
 Jazbec, M. 10209
 Jean, R. V. 72
 Jeangille, P. 5800
 Jeannequin, B. 6, 4213, 7802, 8665
 Jebari, A. 10129
 Jeblick, W. 3513, 5915
 Jech, J. 1388
 Jefferson, D. K. 6217
 Jeffery, P. B. 10276
 Jeffree, C. E. 5681, 7545
 Jeffries, P. 9054
 Jeiter, R. 10632
 Jelaska, S. 3187
 Jelonek, W. 8310
 Jemaa, R. 8683
 Jemali, A. 3937, 4886
 Jenkins, G. I. 7306
 Jenni, S. 6419
 Jenny, R. 9757
 Jensen, M. 7386
 Jensen, M. H. 991
 Jensen, R. A. 3418
 Jeong, B. R. 3716
 Jeong, C. S. 10562, 10936
 Jeong, H. Y. 10732
 Jeong, I. M. 10655, 10704
 Jeong, J. D. 10523
 Jeong, J. S. 3024
 Jeong, J. W. 7438, 7498
 Jeong, W. J. 1345
 Jeong, Y. O. 10524, 10543
 Jeong ByoungRyong 3716
 Jeong CheonSoon 10562, 10936
 Jeong HyangYung 10732
 Jeong InMyeong 10655, 10704
 Jeong JongDo 10523
 Jeong JongSung 3024
 Jeong YeonOk 10524, 10543
 Jequel, M. 8740
 Jerie, P. H. 5660
 Jermini, M. 287, 1618
 Jermyn, W. A. 4033
 Jerome, J. J. 5082
 Jesch, H. H. 4432
 Jett, L. W. 4086, 7700, 10425
 Jetter, R. 1686, 7880
 Jeuffroy, M. H. 454
 Jeune, B. 2401
 Jeurissen, J. G. M. 4982
 Jevnišek, A. 3799, 4789
 Jeyarajan, R. 9552
 Jha, B. K. 7321
 Jha, C. N. 2267

- Jha, S. 8129
 Jha, T. B. 8129
 Jham, G. N. 8303
 Jhon, A. Q. 2532, 4853
 Ji, F. 6354
 Ji, J. J. 3380
 Ji, L. H. 2882
 Ji, S. B. 10638
 Ji, S. Y. 1847
 Ji, Z. F. 6735
 Ji, Z. L. 4633
 Ji Fang 6354
 Ji JaeJun 3380
 Ji LingHai 2882
 Ji ShiBao 10638
 Ji ShuYi 1847
 Ji ZhongFu 6735
 Ji ZuoLiang 4633
 Jia, C. L. 4369
 Jia, J. 10837
 Jia, K. L. 10097
 Jia, P. 5293
 Jia, T. 5293
 Jia, W. S. 4170
 Jia, X. C. 4273
 Jia, Y. X. 3892
 Jia ChunLan 4369
 Jia KeLi 10097
 Jia Ping 5293
 Jia Ti 5293
 Jia WenSuo 4170
 Jia XinCheng 4273
 Jia YongXiang 3892
 Jiang, D. A. 6606
 Jiang, E. G. 3234
 Jiang, G. H. 4864
 Jiang, H. Y. 269, 3039
 Jiang, L. 1067, 8071
 Jiang, M. 3015, 4322, 10301
 Jiang, M. X. 6633
 Jiang, Q. Y. 471
 Jiang, S. F. 10837, 10856
 Jiang, S. G. 2658
 Jiang, S. S. 4051-4052
 Jiang, W. 1285
 Jiang, W. B. 2944, 3631, 3828, 10061
 Jiang, W. R. 7735
 Jiang, W. S. 1278, 4041, 4043
 Jiang, X. C. 1769
 Jiang, X. M. 401, 6828, 8710
 Jiang, Y. C. 10269
 Jiang, Y. M. 108, 3783, 9953
 Jiang, Y. N. 4494
 Jiang, Y. T. 3303, 4100, 4260
 Jiang, Y. W. 5873
 Jiang, Y. Z. 4014
 Jiang, Z. W. 4863
 Jiang DeAn 6606
 Jiang EnGuo 3234
 Jiang GuiHua 4864
 Jiang HongYing 269, 3039
 Jiang Ming 4322
 Jiang MingXing 6633
 Jiang ShengSe 4051-4052
 Jiang ShiGao 2658
 Jiang WanRu 7735
 Jiang WeiBin 3828
 Jiang WeiBing 2944, 3631, 10061
 Jiang WuSheng 4041, 4043
 Jiang XianMing 401, 6828, 8710
 Jiang XiaoChen 1769
 Jiang YingChun 10269
 Jiang YiWei 5873
 Jiang YongZhong 4014
 Jiang YouTiao 3303, 4100, 4260
 Jiang YuanMao 108, 3783
 Jiang ZhengWang 4863
 Jiao, J. R. 10505
 Jiao, Y. S. 4112
 Jiao, Z. G. 8340
 Jiao JiRong 10505
 Jiao YanSheng 4112
 Jie, Y. L. 123
 Jie YuLing 123
 Jiji, T. 3517
 Jim, C. Y. 2459, 5531, 6182
 Jiménez, A. 3681
 Jiménez, M. A. 2260
 Jiménez, P. 2709
 Jiménez-Díaz, R. M. 3084
 Jiménez Jiménez, J. 9379
 Jin, B. 314, 3405
 Jin, C. H. 8730
 Jin, G. 5030
 Jin, J. P. 1769, 4567
 Jin, S. S. 2384
 Jin, T. M. 3950
 Jin, W. G. 9132
 Jin, Y. F. 1105, 3472
 Jin, Z. L. 1575
 Jin Bo 314, 3405
 Jin ChongHua 8730
 Jin JianPing 1769, 4567
 Jin SunSup 2384
 Jin TongMing 3950
 Jin WenGui 9132
 Jin YonFen 3472
 Jin YongFeng 1105
 Jin ZhenLing 1575
 Jinap, S. 893-894, 9021
 Jinap Selamat 2683
 Jindal, K. K. 3750, 7489
 Jing, X. F. 9318
 Jing, X. Q. 6454
 Jing, Z. P. 4218
 Jing XiaoQuan 6454
 Jing XueFu 9318
 Jing ZhiPing 4218
 Jiu, Y. J. 471
 Jo, J. H. 1495, 2108, 10584
 Jo JiHyong 2108
 Jo JiHyung 10584
 Joarder, O. I. 7372, 8997, 10985
 Joas, J. 9013
 Job, C. 3212, 6872
 Job, D. 3212, 6872, 10508
 Jobin, M. 8083
 Jobling, J. 3803
 Jobling, J. J. 1977
 Jocys, T. 2697
 Joe, C. O. 6855
 Jogdand, S. 2272
 Joginder Singh 381, 7704
 Johannes, E. 6935
 John, K. 6242
 John, P. 145, 3804, 4800, 5629, 8126, 8999
 John, P. S. 2680
 John, S. E. T. 10054
 Johns, G. G. 1783, 9011
 Johns, G. R. 6686
 Johnson, A. W. 1415
 Johnson, B. 6191
 Johnson, B. J. 2421, 6141, 6149-6150, 8801, 8807
 Johnson, D. 9122
 Johnson, D. S. 7510, 9121, 9216, 9310
 Johnson, E. 8922
 Johnson, E. L. 1684
 Johnson, G. I. 5450
 Johnson, G. R. 6229
 Johnson, M. 9774
 Johnson, M. B. 732
 Johnson, M. K. 6767
 Johnson, M. W. 8577
 Johnson, N. A. 8909, 10851
 Johnson, R. 7074
 Johnson, S. 10771
 Johnson, S. D. 4379-4380
 Johnson, A. 5879
 Johnson, L. 8702
 Johnston, D. L. 5219
 Johnston, J. 7980
 Johnston, J. J. 5711
 Johnston, K. 2423
 Johnston, M. E. 1653
 Johnston, S. A. 551
 Johnston, W. J. 8804
 Johnstone, J. V. 4033
 Jolaoso, M. 880
 Jolivet, P. 1298
 Jolivet, S. 3340
 Jolliffe, P. A. 5017
 Joly, R. J. 4235
 Jones, A. L. 3819
 Jones, A. T. 7567
 Jones, D. L. 7065
 Jones, J. B. 1433
 Jones, J. H. 7128
 Jones, J. W. 2297, 8693
 Jones, K. M. 5621
 Jones, L. H. 5501, 10981
 Jones, N. 2465
 Jones, P. N. 4482, 8871
 Jones, P. T. 5877
 Jones, R. 9709
 Jones, R. B. 2508, 4427, 7892
 Jones, R. D. 3170
 Jones, R. K. 624
 Jones, R. T. 17
 Jong, F. S. 974, 4653
 Jong, J. H. de 8529
 Jong, P. D. de 5792
 Jong, T. de 1040
 Jong FohShoon 4653
 Jöngen, W. M. F. 7502
 Jönsson, J. Å. 9588
 Joon, M. S. 2717, 4855
 Jopke, P. 7713
 Jordan, C. M. 1722
 Jordan, J. L. 1722, 9645
 Jordan, L. S. 1722
 Jordán, M. 9061, 10025
 Jordan, M. O. 4836
 Jordan, W. C. 2049
 Jordão, C. P. 3125, 10412
 Jordi, W. 5205
 Jorge, L. I. F. 7166
 Jørgensen, L. B. 9990
 Jørgensen, P. M. 3699
 Jorissen, H. J. M. M. 3348
 Josan, J. S. 8944, 9894, 10860
 Jose, C. T. 6389
 Joseleau, J. P. 6654-6655, 8406
 Joseph, D. 9029
 Joseph, D. M. 446
 Joseph, G. 6396
 Joseph, L. 8923
 Joseph, M. 7131
 Joseph, P. 450, 2252
 Joseph, P. A. 1800
 Joseph, T. 5452
 Joshi, J. M. 52
 Joshi, M. 9559
 Joshi, M. C. 7794
 Joshi, M. K. 5238
 Joshi, M. S. 4444
 Joshi, P. A. 9786
 Joshi, R. M. 6373
 Joshi, S. 6898
 Joshi, V. 7182
 Joshi, V. R. 4134, 9613
 Joshua, P. 1561
 Joubert, M. E. 204, 3743, 8363
 Joulain, D. 10766
 Joung, H. 554
 Joung, H. Y. 2405-2406, 6112, 10629
 Joung HyangYoung 2405-2406, 6112, 10629
 Joung Hyouk 554
 Jourdan, C. 5499, 9988
 Jovičević, D. 3231
 Joy, K. A. 7929
 Joy, R. W., IV 7835, 8897
 Joyard, J. 2150
 Joyce, D. C. 3153, 4482, 8871-8872, 8879, 8947, 9808, 10730
 Joyce, P. A. 9808
 Józefowicz, J. 761
 Jrifi, A. 1717, 10823
 Ju, Y. C. 10590
 Ju, Z. G. 1112, 3802, 8314, 8319
 Ju-ichi, M. 4513, 6335
 Ju YoungCheul 10590
 Ju ZhiGuo 1112, 3802, 8314, 8319
 Juan, M. 2619, 4705, 7217
 Judd, W. S. 7054
 Jukes, A. A. 3148
 Julian, J. F. 3780
 Juliarni 6874
 Jullien, J. 6872
 Jumin, H. B. 6315, 8899, 10739, 10836
 Jun, D. W. 10398
 Jun, E. S. 6166
 Jun DaeWoo 10398
 Jun EunSun 6166
 Juncker, E. 1286-1287
 Juneja, M. L. 10750
 Jung, D. S. 6255
 Jung, S. T. 10864
 Jung DaeSoon 6255
 Jung SoonTeck 10864
 Junqueira, N. T. V. 7348, 7390
 Junquera, B. 10348
 Junttila, O. 7873
 Jurczak, B. 2934
 Jurukova-Grancharova, P. 8761
 Jury, S. L. 1578, 3543, 3699
 Jurzysta, M. 2176
 Juste, F. 2625, 8966
 Juthangkoon, S. 9823
 Jwanny, E. W. 394, 5881
 Jyoti, M. 10535
 Jyoti Misra 2240
 Kaack, K. 4227
 Kaas, R. 3557
 Kabasakal, O. S. 3552
 Kabir, K. H. 6003
 Kabiri, F. 6202
 Kaburaki, H. 1485, 2327
 Kač, M. 6271
 Kachhwaha, M. 916
 Kachonpadungkittit, Y. 982
 Kachouri, M. 7241
 Kacker, N. K. 10910
 Kaczperski, M. P. 9671
 Kadam, A. S. 3977, 9866
 Kadam, S. G. 1789, 8128
 Kadam, S. S. 1870
 Kadayo, K. 214
 Kader, A. A. 1053, 4697, 7526, 9115, 9217
 Kader, F. 8421
 Kader, J. C. 7131
 Kadi, N. 5135
 Kadioglu, A. 872
 Kadir, S. 161, 8548
 Kadis, C. C. 1670
 Kadner, R. 3395
 Kado, C. I. 4248
 Kadota, A. 2431
 Kadota, M. 8519
 Kadoya, K. 164, 3587, 5377, 9402
 Kadoya, Y. 6961
 Kadunc, V. 10418, 10437
 Kadyrov, A. K. 1365
 Kadziola, A. 573
 Kafkafi, U. 5537, 8064, 8220, 8685
 Kagawa, H. 6164
 Kagawa, T. 5220
 Kageyama, Y. 5171, 10619
 Kahlon, P. S. 967
 Kahn, B. A. 1414, 7791
 Kahn, N. 4219
 Kailasapathy, K. 2007
 Kailash Paliwal 9603
 Kailuweit, H. D. 3224
 Kain, D. P. 8300
 Kairu, E. N. 7352
 Kairu, G. M. 6403
 Kaiser, C. 1756, 3577, 4485, 9992
 Kaiser, W. M. 3116, 6871, 8501
 Kaith, N. S. 1957, 4772, 9291
 Kaizu, Y. 8832
 Kajfež-Bogataj, L. 10769
 Kajiwara, T. 411
 Kakaliková, L. 282
 Kakar, K. L. 7485
 Kakegawa, K. 298
 Kakiyama, F. 9038
 Kakinuma, M. 8635
 Kakiuchi, N. 4806, 4809, 5619
 Kakkar, V. K. 578, 6970
 Kako, S. 3167-3168, 6836
 Kákoniová, D. 5974
 Kakoty, N. N. 11010
 Kakouli, T. 7588
 Kalač, P. 4265
 Kalaitzis, P. 1464
 Kalantari, K. M. 10559
 Kalberer, P. 566

- Kalberer, P. P. 2353, 2360
 Kalbhor, H. B. 9444
 Kalcheva, S. 8495
 Kale, K. B. 829, 10850
 Kale, P. B. 10380
 Kale, P. N. 3324, 4034, 7329-7330, 10939
 Kalelioglu, M. 8100
 Kalembara, S. 9592-9593
 Kalia, P. 7942
 Kalinkina, G. I. 8009
 Kalita, H. 8057
 Kallabis-Rippel, K. 2190
 Kallak, H. 7862
 Kalleberg, O. 7084
 Kalmar, D. 796
 Kalra, A. 2528, 4954, 6245
 Kalra, Y. P. 826, 8066
 Kalt, W. 3924
 Kalume, D. E. 9106
 Kalyan Chakrabarti 9755
 Kamachi, S. 4287
 Kamadan, K. 3610
 Kamal, A. T. M. M. 5101
 Kamal, H. M. 5415-5416
 Kamal, R. 2567
 Kamal Sharma 1825, 7180
 Kamalam, N. V. 9944
 Kamaluddin, S. 6892
 Kamara, C. S. 10054
 Kamarudin, N. 7342
 Kamarudzan Aribi 4635
 Kamat, M. 767
 Kamble, A. B. 966
 Kamboj, J. S. 2968
 Kamburova, M. 7651, 10363
 Kameda, K. 8600
 Kamei, T. 6731
 Kamelin, R. V. 154
 Kamemura, K. 8598
 Kamenetsky, R. 6134, 7023
 Kamenicka, A. 9778
 Kamenova-Yukhimenko, S. 6845-6846, 6869
 Kamentseva, I. E. 9518
 Kamerman, J. W. 4141
 Kamide, K. 5117
 Kamigama, N. 5439
 Kamilova, E. U. 3135
 Kamimura, H. 8713
 Kamińska, K. 1447
 Kaminski, R. 8859
 Kamisaka, S. 7714, 8557
 Kamisako, W. 1407, 5067
 Kamiya, Y. 5033, 5975
 Kamiyama, K. 379
 Kammereck, R. 8301
 Kamo, M. 2149, 6767
 Kamoen, O. 3503
 Kampp, J. 6588
 Kamtuo, A. 2168, 3839
 Kamuro, Y. 3093, 3460
 Kan, Y. 4513
 Kanai, R. 8827
 Kanamitsu, M. 8555
 Kanamori, H. 7162, 8026
 Kanamori, M. 4555, 9829
 Kanauija, S. P. 6805
 Kanayama, Y. 7539, 8429
 Kanda, H. 410
 Kanda, K. 5867, 9632
 Kandiannan, K. 2517
 Kandil, E. A. 2954-2956
 Kandil, F. E. 8896
 Kandlerbinder, A. 6871
 Kandußer, M. 836, 2615
 Kandybin, N. V. 6063
 Kane, M. E. 2429, 4410
 Kanechi, M. 7305, 9956
 Kaneda, M. 414, 6289
 Kaneko, K. 4806
 Kaneko, R. T. 591, 653
 Kaneko, S. 4355, 6154, 7907, 7910
 Kaneko, Y. 5885
 Kaneria, B. B. 1275
 Kanerva, L. 7052
 Kang, B. H. 10789
 Kang, J. G. 602, 1538
 Kang, J. S. 10543, 10932
 Kang, K. H. 2562, 3243, 10466
 Kang, K. Y. 3024, 10935
 Kang, L. M. 3131
 Kang, N. D. 10782
 Kang, S. J. 1158
 Kang, S. K. 10523
 Kang, S. M. 10350
 Kang, S. O. 9636
 Kang, S. S. 3891
 Kang, S. W. 10779, 10895
 Kang, W. 8954
 Kang, Y. J. 6502
 Kang, Y. Q. 2120
 Kang, Y. W. 7809
 Kang ByeungHwa 10789
 Kang JongGoo 602, 1538
 Kang JumSoon 10543, 10932
 Kang KwangHee 2562
 Kang KwangYoon 3024, 10935
 Kang KyungHee 3243, 10466
 Kang LiMei 3131
 Kang NamDae 10782
 Kang SamSeok 3891
 Kang SaOuk 9636
 Kang SeongMo 10350
 Kang SeungWon 10779
 Kang SoonKee 10523
 Kang SooWoong 10895
 Kang Wen 8954
 Kang YaoWei 7809
 Kang YongJie 6502
 Kang YuQing 2120
 Kaninski, A. 9659
 Kaniszewski, S. 504
 Kanjilal, P. B. 5306
 Kannabiran, B. 2491
 Kanner, J. 6257
 Anno, T. 912
 Kano, A. 1882, 3286
 Kano, H. 2807
 Kano, Y. 7717-7718
 Kanofsky, J. R. 7924
 Kansal, S. 10627
 Kántor, T. 5895
 Kanwar, H. S. 10406
 Kanwar, J. S. 4116, 5653, 7996, 9553
 Kanzler, P. 1071
 Kao, C. L. 4271
 Kao, T. H. 7869
 Kao ChuanLiang 4271
 Kao TehHui 7869
 Kaousar, A. H. 3987
 Kapadia, P. K. 1142, 9914
 Kapari-Isaia, T. 8078
 Kapitsimadi, C. 472
 Kaplan, D. 5853
 Kaplankiran, M. 10824
 Kappel, F. 9270
 Kapraun, D. F. 1700
 Kaps, M. L. 4742
 Kapur, S. K. 7183
 Kapur, S. P. 2591
 Kar, M. 9015
 Kar, P. L. 3588, 4506, 7266, 10883
 Kara, A. 9243
 Kara, E. E. 4916, 9756
 Kara, S. 9380, 9382-9383, 10318, 10332-10333
 Kargaly, Y. 9660
 Karabourniotis, G. 7248
 Karácsanyi, S. 5974
 Karagiannidis, N. 274, 1187, 2088, 2991, 9401
 Karam, A. 2133-2134, 4253
 Karan Singh 8604
 Karasev, G. S. 5025
 Karayianni-Christou, M. 2576
 Karban, R. 1244
 Karczmarczyk, S. J. 4290, 9492
 Kareem, A. A. 1788
 Kärenlampi, S. 5707
 Kargol, M. 6850
 Karhu, S. 6485
 Karhu, S. T. 88-89
 Karihaloo, J. L. 7785
 Karikomi, T. 10119
 Karim, M. N. A. 6449
 Karim, M. R. 8997
 Karimdzhanov, A. K. 8894
 Karinchai, N. 2117
 Karipidis, C. 7804
 Kariuki, J. L. W. 5827
 Karivaratharaju, T. V. 1028, 9625
 Karkeli, M. S. 2091
 Karłowski, K. 10069
 Karlsson, C. 5879
 Karmakar, P. R. 898
 Karnakova, N. N. 2207
 Karni, L. 10530
 Karplus, P. A. 4978, 6768
 Karpova, E. V. 4106
 Karssen, C. M. 1344, 3718, 4206
 Kartar Singh 8489, 10661
 Karthikakuitiyamma, M. 942
 Karunadasa, P. 10997
 Karunaichamy, K. S. T. K. 9433
 Karunananda, B. 7869
 Karunskii, A. I. 8699
 Karunyal Samuel 9603
 Kasahara, H. 5026
 Kasahara, K. 1544, 6101
 Kasai, N. 1185
 Kasai, Y. 8556
 Kasap, Y. 1288
 Kasaye, J. 7653
 Kaserer, H. 2079
 Kashefipour, S. M. 8958
 Kashem, A. 7373
 Kashimura, Y. 4806
 Kashin, V. 1022
 Kashin, V. I. 6642
 Kashina, T. K. 5320
 Kashio, T. 6676
 Kashiwagi, S. 9101
 Kashyap, M. M. 4252
 Kashyap, N. P. 10485
 Kashyap, R. 4620
 Kashyap, R. K. 5303
 Kaşık, G. 561
 Kasimatis, A. N. 3952, 3999
 Kask, K. 6539
 Kaška, N. 147, 5641, 6341, 7585, 8056, 8082, 9229, 9233, 9236, 9242, 9259, 10180, 10294
 Kasrawi, M. A. 329, 4154, 6412
 Kassahun, B. W. 6797
 Kassay, L. 5624
 Kassem, A. A. 7232
 Kassem, H. A. 1714, 1954, 7232
 Kassem, M. E. 10873
 Kassim, N. A. 3130
 Kast, W. K. 10336
 Kastle, A. 2544
 Kasuga, A. 3331
 Kasuga, L. J. 8131
 Kasumi, M. 1563
 Kasuya, K. 10674
 Katagiri, S. 190
 Katagiri, Y. 1681
 Katahira, M. 1697
 Katakura, Y. 2051, 3008
 Kataoka, I. 25, 9410
 Katayama, H. 10299, 10674
 Katayama, M. 8360, 10237
 Katayama, T. 10754-10755
 Katcher, J. B. 3739
 Katerji, N. 8684
 Kathiravan, K. 4822
 Kathiresan, K. 1694
 Kathpal, T. S. 6463
 Katinger, H. 1071
 Kato, C. 7712
 Kato, E. T. M. 2541, 7166
 Kato, M. 2834, 8556, 9037-9038
 Kato, S. 7490
 Kato, T. 3107, 3392, 8668, 8746, 9918
 Kato, Y. 8732
 Katole, N. S. 9443
 Katole, S. R. 10850
 Katovich, E. J. 7009, 7877
 Katpar, P. B. 8578
 Katsura, N. 5884
 Kattimani, K. N. 10357
 Katwale, T. R. 8506
 Katz, G. 3176
 Kauer, R. 5742
 Kaul, J. L. 7540, 10627
 Kaul, K. 3398
 Kaundal, G. S. 2958
 Kaur, G. 10484
 Kaur, J. 9894, 10381
 Kaur, M. J. 575, 7853
 Kaur, N. P. 2958
 Kaur, S. 6970, 7654, 7945, 9438
 Kaur-Sawhney, R. 6028
 Kausar, T. 9637
 Kaushal, N. 10534
 Kaushal, R. P. 1381
 Kaushik, R. A. 2836
 Kaus, H. 3513, 5915
 Kawabata, J. 638-639, 1551, 6127, 7893
 Kawabata, O. 7115
 Kawabata, S. 9685
 Kawachi, E. 9024
 Kawada, T. 10598
 Kawagishi, H. 574
 Kawagishi, K. 6885, 10518
 Kawaguchi, S. 5350
 Kawahara, S. 6447
 Kawai, F. 4555, 9829
 Kawai, G. 3360
 Kawai, H. 10931
 Kawai, S. 3267
 Kawai, Y. 8366, 8450
 Kawakami, F. 4802, 5406, 9918
 Kawakami, S. 5492
 Kawakishi, S. 11027
 Kawamitsu, Y. 4377-4378
 Kawamura, A. 8938
 Kawamura, S. 9481
 Kawane, T. 334
 Kawano, S. 8851
 Kawanobu, S. 7693
 Kawarabata, T. 8828
 Kawarabayashi, W. 648, 7897
 Kawasaki, K. 1718
 Kawase, K. 835, 4521, 5367, 8482, 10854
 Kawashima, K. 3002
 Kawashima, Y. 251, 4892, 10729
 Kawata, K. 4555, 9829
 Kawatin, A. F. 7543
 Kaweck, Z. 2065, 4889-4891
 Kay, P. 10276
 Kaya, H. K. 4105
 Kaya, I. 10260
 Kayamura, T. 3177
 Kayano, T. 10533
 Kaymak, F. 7673
 Kaynak, G. 9836
 Kaynas, K. 10564
 Kays, S. J. 6052
 Kazakov, L. A. 5258
 Kazanjian, A. 10495
 Kazaz, I. 7797
 Kazuma, K. 6252
 Ke, D. S. 10737
 Ke, G. W. 2636
 Ke DeSen 10737
 Ke GuanWu 2636
 Kean, D. 1374, 1435
 Keche, M. B. 3390
 Keck, M. 1086
 Keefer, C. J. 7004
 Keever, G. J. 707, 730-731, 2468, 6105, 6209, 6211, 6220-6221, 9795-9796
 Kefakis, M. D. 8664
 Kehar Singh 10750
 Kehat, M. 2901
 Keil, C. B. O. 7849
 Keilholz, W. 1683
 Keilling, J. 1036
 Keinath, A. P. 8571
 Keisling, T. 8565
 Keith, G. 3536
 Kelbessa, U. 7653
 Kelepouris, K. 5205
 Kelleher, J. F. 6855
 Keller, E. 3296
 Keller, F. 5179, 6418
 Keller, M. 278, 8466
 Keller, S. 9164

- Kellerhals, M. 1173, 2855,
 3814, 4729, 7440, 8243, 8358
 Kelley, K. M. 9330
 Kelley, T. J. 2222
 Kelly, J. 5
 Kelly, J. W. 3394, 9662
 Kelly, M. E. 5840
 Kelly, S. L. 7902
 Kelly, W. B. 2242
 Kelsey, M. P. 9159
 Kemble, J. 4240
 Kemmerer, B. 5304, 10752
 Kemp, H. 4731, 4851, 6536-
 6537, 10093
 Kemp, J. D. 7181
 Kempen, H. 9395
 Kempler, C. 5704
 Kende, H. 447
 Kendrick, R. E. 5975, 6999
 Kenji, T. 2016
 Kenji Tanabe 2016
 Kenna, G. 2627
 Kenne, L. 4470
 Kennelly, E. J. 4472
 Kenny, G. J. 2989
 Kenny, M. K. 900
 Kenya, Coffee Research Foun-
 dation 2694-2695, 3657
 Kenya, Tea Research Founda-
 tion 2804
 Keoboulapha, B. 876
 Kępka, M. 2913
 Keppel, H. 8242, 9178
 Kербellec, F. 3645
 Kerek, M. M. 9250, 9257
 Kerkides, P. 7733, 7804
 Kern, J. R. 1336
 Kerner, K. N. 3313
 Kerr, Y. H. 6153
 Kersten, M. A. S. H. 3349
 Kersting, U. 1732
 Kervella, J. 3874
 Keserović, Z. 1061
 Keshavaiah, K. V. 6401
 Keskar, B. G. 9678
 Kester, D. E. 32
 Ketchie, D. O. 6632, 9169
 Ketelhohn, L. M. 1653
 Ketsa, S. 972, 2775, 5521,
 6175, 10705, 10906
 Kettunen, R. 10473
 Keulemans, J. 162, 3800, 5639,
 8332
 Keum, D. H. 7438, 7498
 Kevers, C. 4886, 8389
 Keys, A. J. 8595, 10494
 Keys, R. N. 2512
 Khabarov, Yu. I. 4810
 Khabou, W. 10884
 Khadari, B. 3827
 Khadeeva, N. V. 5145
 Khader, J. B. M. M. A. 8933
 Khader, K. B. A. 6389
 Khalekuzzaman, M. 7372
 Khalida Afridi 10799
 Khalifa, T. I. 8781
 Khalikov, D. Kh. 4807
 Khalip, A. R. 365
 Khallal, S. M. 9604-9605
 Khallida, R. 430
 Khamis, M. A. 2954-2956
 Khan, A. 10952
 Khan, A. A. 2800
 Khan, H. A. 2375, 2597
 Khan, M. A. 849, 4631
 Khan, M. A. A. 2199, 10461
 Khan, M. F. 6517
 Khan, M. L. 6035
 Khan, M. M. 6260, 8578, 9940,
 9942
 Khan, M. N. I. 4631
 Khan, M. R. 10547
 Khan, M. W. 10547
 Khan, N. A. 2586
 Khan, R. A. A. 7776
 Khan, S. A. 2597, 4625
 Khan, S. M. 3374, 4962, 10905
 Khan, S. T. 929
 Khan, T. A. 929
 Khan, V. A. 317
 Khanam, M. 5321
 Khanh, L. D. 1958, 1960
 Khanizadeh, S. 1202, 2053,
 3732, 3935, 8377
 Khanna, K. K. 7149
 Khanna, K. R. 7173
 Khanna, S. 5011
 Khanpara, V. D. 1275
 Kharada, A. 3790
 Kharche, V. K. 9999
 Kharchenko, G. L. 3784
 Khare, P. B. 10082
 Khare, V. 916
 Kharie, S. 6394
 Kharina, T. G. 8009
 Kharitonova, T. M. 3182
 Khar'kina, T. G. 7424
 Khatoon, K. 2731
 Khatoon, S. 8848
 Khatskevich, L. K. 8576
 Khattab, M. 1557
 Khaw, K. T. 9423
 Kheirulomoom, A. 390
 Khetarpal, S. 7793
 Khimani, R. A. 7006-7007,
 7874
 Khin Wla Win 6115
 Khlaif, H. 5898
 Khogali, A. 8704
 Khokhar, K. M. 10540
 Khokhar, K. S. 6891
 Khokhar, U. U. 1074
 Kholyako, L. T. 4942
 Khoo, K. C. 980
 Khoo, K. T. 7341
 Khoo KayThye 7341
 Khosla, M. K. 8905
 Khosla, S. 3277
 Khozirah, S. 2730
 Khurana, A. L. 2227
 Khurana, S. 11025
 Khurana, S. C. 510, 9440,
 10521
 Khurdiya, D. S. 10077
 Khuro, R. D. 2628
 Khurshid, T. 101
 Khurshid Samad 6517
 Kibritoglu, A. 5641
 Kidanu, A. 7255
 Kiddle, G. 9498
 Kiddle, K. W. 5595
 Kidmose, U. 9356
 Kiefer, W. 3970, 5742
 Kiehne, A. 6459
 Kiekens, L. 3053
 Kieliszewski, M. 6940
 Kigel, J. 2701
 Kihara, S. 4124
 Kihara, T. 4521, 8962
 Kiirats, O. 4165
 Kiistala, R. 7052
 Kikoku, Y. 6679
 Kiku, B. B. 5760
 Kikuchi, A. 6047
 Kikuchi, N. 6781
 Kikuchi, O. 6995
 Kikuchi, T. 5602, 8272, 8274
 Kilb, B. 7677
 Kilby, M. W. 2102
 Kilinc, M. 771
 Kilincer, N. 2660
 Kim, B. H. 3321, 3425
 Kim, B. J. 1263
 Kim, B. S. 5880, 7438, 7498,
 10523
 Kim, C. B. 330, 2175
 Kim, C. G. 10789
 Kim, C. K. 2175
 Kim, C. M. 10857
 Kim, C. S. 7414, 7780, 8217-
 8218
 Kim, D. C. 3069, 4463, 4606,
 6286-6287, 7438, 7498
 Kim, D. E. 2158
 Kim, D. H. 3416, 10472, 10779
 Kim, D. K. 3416
 Kim, E. S. 7159
 Kim, G. H. 1979, 2069, 2169,
 8599
 Kim, H. D. 10732
 Kim, H. J. 2158, 3432, 6070,
 6283, 10416
 Kim, H. K. 10699, 10701,
 10936
 Kim, H. S. 3598
 Kim, H. T. 3024, 10780, 10935
 Kim, H. Y. 6170, 7971, 10700,
 10780
 Kim, I. S. 1369, 1371, 2302,
 10562
 Kim, J. B. 10116
 Kim, J. C. 1341, 10774
 Kim, J. H. 734-735, 1158, 3765,
 6225, 6540, 7414, 8217-8218,
 10416, 10462, 10480
 Kim, J. J. 846
 Kim, J. K. 1473, 3321, 3425,
 3432, 5129, 7715, 10116,
 10139, 10241, 10426, 10571
 Kim, J. M. 3416
 Kim, J. S. 10218, 10232
 Kim, J. W. 5833
 Kim, J. Y. 2384, 10618, 10649
 Kim, K. H. 10702
 Kim, K. K. 3560, 9868
 Kim, K. R. 734
 Kim, K. S. 637, 1579, 3387,
 9638, 10736
 Kim, K. U. 3126
 Kim, K. W. 6126, 10659
 Kim, K. Y. 95
 Kim, M. H. 7780
 Kim, M. S. 10148
 Kim, N. S. 9576
 Kim, O. W. 7438, 7498
 Kim, S. B. 10116, 10139,
 10272, 10347, 10351, 10857
 Kim, S. C. 3156
 Kim, S. E. 10300, 10544
 Kim, S. G. 10782
 Kim, S. H. 7722
 Kim, S. J. 139, 1119
 Kim, S. K. 1495, 2108, 3434,
 10584
 Kim, S. S. 6172, 7722
 Kim, S. U. 6255
 Kim, S. W. 10749
 Kim, T. 8001
 Kim, T. C. 2654, 3890, 4558
 Kim, T. I. 10398
 Kim, T. J. 1263, 3380, 10704
 Kim, T. S. 1217
 Kim, T. W. 3297-3299
 Kim, W. B. 3321, 3425
 Kim, W. C. 1158, 3765, 6540
 Kim, W. S. 692, 3025, 10631
 Kim, Y. A. 6087, 6090, 10621
 Kim, Y. B. 9615, 10272
 Kim, Y. H. 7780, 10590, 10857
 Kim, Y. J. 9852
 Kim, Y. R. 9636
 Kim, Y. S. 755, 10300, 10416,
 10544
 Kim, Y. Y. 10139, 10842
 Kim BeongHyeon 3425
 Kim BokJin 1263
 Kim ByeongHyeon 3321
 Kim ByungSoo 5880, 10523
 Kim ChangBae 330, 2175
 Kim ChangGil 2175
 Kim ChangMyung 10857
 Kim ChungGuk 10789
 Kim DaeHyang 3416
 Kim DongCheol 6286-6287
 Kim DongChoon 3069, 4463,
 4606
 Kim DongEog 2158
 Kim DongHan 10779
 Kim DongKwan 3416
 Kim EunSoo 7159
 Kim GunHee 2169
 Kim HakKi 10936
 Kim HanKyun 10699, 10701
 Kim HoeTae 3024, 10935
 Kim HongJae 3432
 Kim HongSun 3598
 Kim HongYul 6170, 10700
 Kim HoYoung 10780
 Kim HyeJin 10416
 Kim HyoungDeug 10732
 Kim HyoungJun 2158
 Kim HyunJoong 6070, 6283
 Kim HyunTae 10780
 Kim IlSeop 1369, 1371, 10562
 Kim ImSoo 2302
 Kim JaeCheol 10774
 Kim JaeWhune 5833
 Kim JaeYeong 10649
 Kim JaeYoung 2384, 10618
 Kim JeamKuk 10116, 10139,
 10241
 Kim JeongKan 3321, 3425
 Kim JeongMan 3416
 Kim JinKug 7715
 Kim JinSoo 10218
 Kim JinSu 10232
 Kim JongHwa 735, 6225,
 10462, 10480
 Kim JongKee 1473, 10571
 Kim JungKeum 10426
 Kim JungKeun 3432
 Kim JuHee 10416
 Kim JungBae 10116
 Kim JungHan 734
 Kim JungHo 3765, 6540
 Kim KeunKi 3560
 Kim KiSun 637, 1579, 10736
 Kim KiuWeon 6126
 Kim KiYeol 95
 Kim KwangHo 10702
 Kim KwangWoong 10659
 Kim KyoSoo 9638
 Kim KyoungRae 734
 Kim NahmSu 9576
 Kim SangKuk 2108, 10584
 Kim SeongBong 10116, 10139,
 10272, 10857
 Kim SeungKyeong 3434
 Kim SooUn 6255
 Kim SoungSoo 7722
 Kim SukWeon 10749
 Kim SungBok 10347, 10351
 Kim SungEun 10300, 10544
 Kim SunGon 10782
 Kim SungSik 6172
 Kim SunHyung 7722
 Kim SunJung 139, 1119
 Kim TaeChoon 3890, 4558
 Kim Taell 10398
 Kim TaeJoung 3380, 10704
 Kim TaeJu 1263
 Kim TaeWan 3297-3298
 Kim WanSoon 692, 10631
 Kim WheeCheon 3765, 6540
 Kim WonBae 3321, 3425
 Kim WoonSeop 3025
 Kim YeonRan 9636
 Kim YiYoul 10139
 Kim YongBae 9615
 Kim YongHo 10857
 Kim YoungA 6087, 6090,
 10621
 Kim YoungBae 10272
 Kim YoungHo 10590
 Kim YoungJim 9852
 Kim YoungShik 10300, 10416,
 10544
 Kim YoungYong 10842
 Kimani, P. M. 5827
 Kimaro, D. N. 4446
 Kimati, H. 3199
 Kimball, B. A. 2613
 Kimchi, M. 3593
 Kimemia, J. K. 6402
 Kimnach, M. 1589, 9747
 Kimsanbaev, Kh. Kh. 1365
 Kimura, A. 574
 Kimura, I. 5041
 Kimura, K. 1264
 Kimura, M. 7723, 10820
 Kimura, N. 2942, 2949, 8347
 Kimura, P. H. 9406
 Kimura, Y. 6857
 Kindel, P. K. 4256
 Kinderen, G. van der 3461
 Kindl, H. 4149, 5014, 7732
 King, G. A. 457, 10078
 King, M. J. 3491
 King, R. W. 1616, 7980
 King, W. 8070
 King, W. J. 5466
 Kinghorn, A. D. 4472
 King'ori, P. N. 3661, 10927
 Kinjo, K. 1363

- Kino-oka, M. 344
 Kinoshita, M. 5876
 Kinoshita, T. 5350
 Kinoshita, Y. 10867
 Kintanar, A. 6050
 Kintya, P. K. 8760
 Kipp, J. A. 2797
 Kiran Kaul 3398
 Kircher, S. 4438
 Kirichenko, E. V. 1674
 Kiritsakis, A. 9909
 Kiritsakis, A. K. 4554
 Kirjavainen, S. 764
 Kirk, C. D. 2258
 Kirk, M. 4210
 Kirkham, T. 3464
 Kirkpatrick, B. C. 2936
 Kirkpatrick, T. L. 5901
 Kirsch, K. 243, 7154
 Kirsch, T. 5292, 9542
 Kirtikara, K. 9578
 Kishan, R. 968
 Kishi, M. P. 4583
 Kishima, Y. 4367
 Kishimoto, M. 9037
 Kislyuk, I. M. 6523
 Kiss, J. 8474
 Kissen Singh 7150
 Kist, H. 5502
 Kitagawa, Y. 4013
 Kitamura, H. 3279
 Kitamura, N. 10145
 Kitamura, T. 1091, 6731, 10214
 Kitani, O. 889, 8832
 Kitano, M. 5848
 Kitapçı, K. 956
 Kitaya, Y. 6495
 Kitinoja, L. 9115
 Kitsaki, C. K. 3624
 Kittakoop, P. 778
 Kittas, C. 3722, 4685
 Kitto, S. L. 4255
 Kiwambo, B. J. 9952
 Kiyota, M. 1903, 8517, 10065
 Kiyota, S. 3541
 Kjellgren, R. 7078
 Kjellgren, R. K. 2035, 2509
 Kjellberg, F. 3827
 Kjemtrup, S. 5048
 Klaas, M. 8512
 Klad', A. A. 1952
 Klaewkasetkorn, O. 5521
 Klamczynski, A. 7584
 Klasman, R. 6124
 Klauke, S. 3295
 Klausch, A. 4432
 Kleeberg, H. 7398
 Kleijn, E. de 1010
 Klein, A. 1421
 Klein, E. 1612
 Klein, J. 5968
 Klein, J. D. 6947, 7223, 10159
 Klein, R. R. 4977
 Kleiner, W. C. 6541
 Kleinhenz, V. 4943, 9415, 9421
 Kleinig, H. 4329
 Kleis-SanFrancisco, S. 6769
 Kleisinger, S. 1058
 Klerk, G. J. de 6547
 Klett, J. E. 6152
 Klieber, A. 10572
 Klimant, I. 7124
 Klimchuk, D. A. 8613
 Klimov, V. V. 5970
 Klinac, D. J. 2970-2971, 3822
 Kling, D. S. 4305-4306
 Klink, J. W. van 10766
 Klobus, G. 1366, 2214, 5907
 Klock, K. A. 8223
 Kloet, S. P. vander 8420
 Klose, R. 2094, 4015-4016, 4447
 Klošeiko, J. 9522
 Klug, D. R. 446
 Kluge, M. 5242
 Kluge, R. A. 10285
 Kluson, R. A. 3204
 Klyachko, N. L. 5960
 Klyshejko, J. 3197
 Kmiecik, W. 469
 Knaff, D. B. 6767, 6769
 Knapp, J. L. 5395, 5408
 Knauf-Beiter, G. 5609
 Knauff, D. A. 6996
 Kneel, M. 6937, 6942
 Knees, S. G. 3699
 Knekt, E. 651
 Kneifel, W. 5781
 Knežević, M. 3371
 Knight, A. 9197
 Knight, A. L. 1092, 1097
 Knipe, M. C. 1093, 2902
 Knoche, M. 6936
 Knoll, D. 5292
 Knoll, M. 7476, 7481
 Knoop, B. 2326
 Knop, A. W. 3274
 Knop, M. 1385
 Knorpp, C. 1299
 Knorr, D. 7129
 Knott, C. M. 8605
 Knowles, N. R. 402-403
 Knowles, R. D. 3822
 Knowles, S. E. 10175
 Knox, J. P. 1469, 6049
 Knutsen, S. H. 5352
 Knutson, J. 7522
 Knutsson, M. 9588
 Ko, J. L. 4271
 Ko, J. Y. 2385, 3434, 10618, 10621
 Ko K. 6861
 Ko, K. C. 2654, 3886, 4558, 7451, 7532, 10842
 Ko, M. K. 6070, 6283
 Ko, N. P. 9455
 Ko, S. U. 10857
 Ko, T. S. 10649, 10702
 Ko, W. H. 7269
 Ko JaeYoung 2385, 3434, 10618, 10621
 Ko JiunnLiang 4271
 Ko KwangChool 3886, 4558, 7451, 7532, 10842
 Ko MinKyo 6070, 6283
 Ko SangUk 10857
 Ko TaeShin 10649
 Ko TaeSin 10702
 Koarai, T. 8612
 Koaze, H. 8990
 Kobayashi, H. 1241, 3360, 6068, 9024
 Kobayashi, K. 399, 6567, 8564, 10464
 Kobayashi, M. 2833, 6100, 6234, 6380, 6804
 Kobayashi, N. 3427, 9781
 Kobayashi, T. 6243
 Kobayashi, Y. 605, 4970
 Kobiler, I. 3579
 Koblet, W. 278, 1249-1250, 3994, 8466
 Kobylińska, J. 2864
 Koch, H. 6568
 Koch, N. 4524
 Koch, W. 10052
 Kochankov, V. G. 7882
 Kochansky, J. 4977
 Kochetov, A. A. 5355
 Kocher, S. 6732
 Kocsis, L. 8465
 Koda, T. 10754-10755
 Kodaira, E. 5203, 10653
 Kodikara, P. B. 2743
 Kodira, U. C. 9191, 9239, 9267, 9273, 9293, 9314, 9330, 9395, 9510
 Koehler, H. S. 4885
 Koehler, S. M. 1464
 Koekemoer, P. J. J. 8941
 Koelemeijer, K. 1528
 Koelsch, M. C. 1659
 Köfferlein, M. 9131
 Kofinas, C. 8927
 Kogan, M. 9335
 Koh, G. C. 3890-3891
 Koh GabCheon 3890-3891
 Kohata, K. 5984
 Kohda, H. 9851
 Köhl, J. 339
 Köhler, L. 6102
 Kohli, U. K. 489, 5084, 8603
 Kohlmann, K. L. 5852
 Kohmura, H. 1404, 10510
 Köhne, J. S. 784, 786, 789, 3564, 3569, 3575, 3578
 Kohnuma, S. 6567, 6601
 Kohorn, L. U. 4467
 Kohzuma, T. 4150
 Koide, T. 8544
 Koike, S. T. 366
 Koizumi, N. 8517
 Kojima, K. 4532, 4534, 5389, 6344, 6381, 10852, 10861
 Kojima, M. 5876, 10457
 Kojima, T. 1169, 4092
 Kok, V. P. H. M. de 2145
 Koké, E. 2101, 2104, 7456
 Kokkalos, T. I. 7509
 Kokko, H. 5707
 Kokkoras, I. F. 553
 Kokoreva, V. A. 10373
 Kokou, K. 1797
 Köksal, A. I. 144
 Kolak, I. 1051, 2837
 Kolalite, M. R. 3525
 Kolbeck, J. 3456
 Kolechevski, P. 10179
 Kolesnikov, V. A. 2181
 Kolesnikova, A. F. 4810
 Kolesova, D. A. 2893, 7483, 10365
 Kollatz, U. 1057
 Koller, D. 3201
 Koller, G. 1641
 Koller, O. C. 8054, 8068
 Kollmann, R. 4680
 Kołodziej, M. 10468
 Kołodziejczak, P. 8262
 Kołosowski, S. 2330, 2519
 Kołota, E. 1281, 9460
 Kolova, L. G. 3771
 Kolte, S. O. 829, 8631
 Koltunow, A. M. 2620, 7218
 Komai, F. 4969, 8514
 Komaki, S. 4646
 Komamine, A. 297-298, 8782, 8897
 Komarova, E. N. 7882, 8038
 Komarova, T. A. 4869
 Komatsu, H. 8335
 Komatsu, T. 10615
 Kompany, E. 2342
 Kon, T. 5607
 Konchan, S. 4203
 Koncz, A. 9617
 Kondo, K. 7935
 Kondo, N. 2083, 2316, 3068, 4932, 5093, 6033, 7795
 Kondo, S. 131
 Kondo, T. 53, 7116, 8600
 Kondrashov, V. T. 4862
 Kondrat'eva, V. V. 1674, 5314, 8771
 Kondratovics, U. 4398
 Kong, F. B. 3774
 Kong, L. F. 7716
 Kong, Q. S. 4900
 Kong FanBo 3774
 Kong LanFeng 7716
 Kong QingShan 4900
 Kongsrud, K. L. 10282
 König, G. 295
 König, S. 452
 Konijnenburg, A. van 4032
 Konishi, B. S. 80, 6542
 Konishi, K. 5171, 10619
 Konishi, S. 4645
 Konopacki, P. 626
 Kononov, V. T. 4736
 Koo, C. D. 9638
 Koo, G. H. 8218
 Koo, R. C. J. 5379
 Koo ChangDuck 9638
 Kool, M. T. N. 7094, 7096
 Kooser, K. S. 2270
 Koopman, W. J. M. 8529
 Kopan', V. P. 10230
 Kopański, K. 2065, 4889-4891
 Koper, R. 9575
 Kopittke, R. 10865
 Kopp, B. 7482
 Korać, M. 1139
 Koraddi, V. R. 5994
 Korányi, P. 6045
 Korban, S. S. 2856, 3757, 3770, 3850, 5188
 Korcak, R. 6014
 Korcak, R. F. 1044, 7577
 Kord, M. 9579
 Kore-eda, S. 8827
 Korea Republic, Korean Society for Horticultural Science 1008-1009, 2800, 4668
 Korekar, V. B. 8631
 Kores, P. J. 3458
 Korganova, N. P. 1361
 Koriem, S. O. 3092, 4040, 5820
 Korikanthimath, V. S. 8888
 Korkhovi, V. I. 10230
 Korla, B. N. 3151
 Kornienko, A. V. 8051
 Korolev, V. A. 6503
 Koron, D. 7580, 9344, 9363
 Korpelainen, H. 6156
 Korsten, L. 4478, 6309, 10975
 Korzhenevskii, V. V. 5757
 Kosak, A. 9131
 Köseoglu, A. T. 175, 1134, 1149, 2935
 Koshioka, M. 3103, 5884, 7719, 7764, 9416, 10613-10614
 Koshy John 6242
 Kositsyn, V. N. 7571
 Koskela, S. 3520
 Kosson, R. 5052, 9529
 Kostecka, J. 10468
 Kostenberg, D. 903
 Koster, C. G. de 5455
 Kostyrkina, O. A. 10373
 Kosugi, Y. 7863
 Kosuth, P. 6617
 Kosztolowicz, T. 6850
 Kotake, Y. 10643
 Kotb, F. K. 10449
 Kotelnik, A. M. 1042
 Kothari, R. M. 10381
 Kothari, S. K. 7141
 Kotlár, I. 8474
 Kotov, A. A. 10507
 Kotova, L. 10486
 Kotova, L. M. 10497
 Kotresha, K. 7105
 Kotur, S. C. 383, 9480
 Kotzabasis, K. 2228
 Kotze, D. J. 7828
 Kotzé, J. M. 4478, 6309
 Kotzé, W. A. 8363
 Kotzé, W. A. G. 204
 Koubová-Ramajlová, R. 3787
 Kouchaji, G. G. 8390-8392
 Koukourikou-Petridou, M. A. 5589
 Koul, B. L. 10406
 Koumanov, K. 6618
 Kouno, I. 7723
 Koussa, T. 293
 Koutsos, T. V. 542
 Kovach, J. 9368
 Kovach, S. P. 7774, 9041
 Kováčik, P. 6772
 Kovács, A. N. 8629
 Kovács, G. 8898
 Kovács, J. A. 10710
 Kovács, L. 5969
 Kovács, Z. O. 9250, 9257
 Kovacs-Gyenes, M. 8731
 Kovács-Németh, A. 7808
 Koval, C. F. 2473
 Koval'chuk, M. J. 8050
 Kovalenko, A. Ya. 6503
 Kovaleva, A. F. 1935, 8257
 Kovtonyuk, N. K. 2392
 Kowalczyk, W. 8672, 8674
 Kowalewski, Z. 875
 Kowalik, B. 8250
 Kowithayakorn, T. 5828
 Koya, K. M. A. 3515, 4441
 Koyakumar, T. 2928
 Koyama, T. 774, 6068, 9489, 10022
 Koyama, Y. 5167
 Kozai, K. 334
 Kozai, T. 3716, 6495

- Kozak, D. 5247
 Kozaki, I. 8076
 Kozár, F. 1965
 Koželj, J. 356
 Kozera, B. 7658
 Koziara, Z. 7916
 Kozłński, B. 8380
 Kozlovskaya, Z. A. 3740
 Kozłowska, H. 6798
 Kozłowska, L. 9587
 Kozłowski, J. 2540, 2569
 Kozma, P. Jr. 10310
 Kraak, H. L. 6008, 8653
 Krähmer, R. 6738
 Krain, E. 2687
 Krajewska, M. 3215
 Krajewski, A. J. 4501
 Krajewski, D. 3635, 8172
 Kralj, D. 6271
 Kralj, S. 6271
 Kraljičević, J. 1216
 Kramer, C. F. G. 4068, 5061
 Kramer, D. 1593
 Krammer, G. E. 547
 Krans, J. V. 4342
 Krarup H., A. 3226
 Krasnovsky, A. 3497
 Krasova, N. G. 1065
 Kraus, T. E. 8590
 Krause, G. H. 7678
 Krause-Bonte, J. 5047
 Krauthausen, H. J. 341, 6568, 8536
 Krauz, V. O. 5908, 7739
 Krawiec, A. 7464
 Krawiec, P. 8330
 Kraybill, A. A. 7923
 Krebs, C. 2855, 3921, 4729, 8304
 Krebs, E. K. 3700
 Krebs, S. L. 6959
 Kreij, C. de 751, 2797, 8209, 8676
 Kremer, D. F. 4063
 Kremer-Köhne, S. 786, 789, 3575, 3578
 Krendeleva, T. E. 5964
 Kretschmer, M. 5015, 10377
 Kreuger, M. 552, 631
 Kreutz, C. A. J. 696
 Kreuzer, A. D. H. 10439
 Krewer, G. 1201, 3926, 7578
 Krichfalushii, V. V. 7156
 Krieger, A. 4970
 Krieger, G. R. 5771
 Krieken, W. M. van der 5205, 10727
 Kriesel, W. 1024
 Krijgsheld, H. T. 7021
 Krishna, A. 4492, 6275
 Krishnakumar, A. K. 9073
 Krishnakumary, K. 7274, 8715
 Krishnamoorthy, A. 2609, 2722
 Krishnamoorthy, B. 7993
 Krishnamurthy, K. S. 5050, 7993
 Krishnan, N. 2566
 Krishnan, P. N. 1693
 Krishnan, S. 2680, 8890, 9107
 Krishnan Kathiravan 4822
 Krishnankutty, S. 6395
 KrishnaRaj, S. 5176
 Krishnasamy, V. 6894
 Kristen, U. 8606
 Krištin, J. 682, 5236, 5338
 Křistová, E. 5887
 Krivosheeva, A. A. 9601
 Krizek, D. T. 1167
 Krizsai-Niemirów, B. 8697
 Krochta, J. M. 8639
 Krodell, K. 7089
 Kroeger, K. D. 10814
 Krofta, K. 10770
 Kromer, K. 54
 Kronstedt-Robards, E. 6118
 Kroonen-Backbier, B. M. A. 8201
 Kropff, M. J. 499
 Kropp, K. A. 7584
 Kroupa, F. 10770
 Kr'stev, M. T. 5259
 Krstić, M. 2966
 Kruczyńska, D. 4730
 Kruczynska, D. E. 10142
 Krueger, A. R. 7574
 Krug, H. 3224, 5066
 Kruger, F. J. 3576, 10971
 Krüger, G. H. J. 9664
 Krustum, G. van 4068, 4982
 Krumbein, A. 372, 4083, 6921, 8534
 Krumböck, K. 7497
 Krümmel, D. 5553
 Krupich, O. M. 1975
 Kruse, A. 10404
 Krylova, I. I. 7568
 Krylova, I. L. 2537
 Krysanov, Yu. V. 2862
 Krzewińska, D. 6556, 8250, 8264, 8284
 Kshirsagar, C. R. 9444
 Ku, H. M. 596, 2378
 Ku, J. H. 1534, 10398
 Ku, M. 1597
 Ku HsinMei 596, 2378
 Ku JaHyeong 1534, 10398
 Kuai, J. 7501
 Kuang, Y. H. 3677
 Kuang YanHua 3677
 Kubačková, M. 5974
 Kubo, H. 5026
 Kubo, M. 3549
 Kubo, Y. 3652, 4947, 6032, 8502, 8990, 10079-10080, 10222
 Kuboi, S. 1981, 2711
 Kubota, C. 9743
 Kubota, F. 8828
 Kubota, H. 8002
 Kubota, M. 1494
 Kučera, T. 8610
 Kuchenbuch, R. 4217
 Kucher, A. A. 10130
 Küden, A. 9236, 10180
 Küden, A. B. 9233, 9236, 9242
 Kudenkov, M. I. 1192, 2043, 2072
 Kudo, T. 8315
 Kudoh, K. 3758
 Kudou, R. 4021
 Kudrin, S. G. 5251
 Kudryashova, L. A. 7705
 Kueh, H. S. 974, 979, 4653
 Kueh HongSiong 4653
 Kuehne, A. R. 7870-7871
 Kühl, M. 7124
 Kühn, B. F. 3134
 Kühn, H. 5912, 7732
 Kühne, S. 6515
 Kuijpers, A. M. 8195
 Kuiper, P. 6586
 Kuiper, P. J. C. 5110
 Kuitunen, M. 4375
 Kuitunen, T. 4375
 Kujawski, P. T. 7974
 Kuk, Y. I. 3156, 6785
 Kukarskikh, G. P. 5964
 Kukina, I. M. 4142
 Kuklenko, E. A. 9608
 Kuklenko, Ye. A. 2291
 Kulaeva, O. N. 4142
 Kulawik, J. 8262
 Kuldeep Singh 10390
 Kulishkina, S. G. 7571
 Kulkarni, G. N. 8622
 Kulkarni, G. S. 4259
 Kull, H. 1965
 Kullaya, A. 2687
 Kulshreshtha, K. 2159
 Kulwal, L. V. 10430-10431, 10832-10833
 Kumakura, H. 240, 3247, 3946
 Kumar, A. 4600, 5494, 5786, 6744, 6755, 7068, 8545, 10663
 Kumar, A. P. A. 7202
 Kumar, B. M. 5302
 Kumar, C. S. 6169, 9821
 Kumar, D. 11019
 Kumar, D. P. 8130, 9940, 9942
 Kumar, E. S. S. 7123
 Kumar, G. 4538
 Kumar, H. 2590
 Kumar, J. 8545
 Kumar, K. 7450
 Kumar, M. 7927
 Kumar, M. U. 9602
 Kumar, N. 3675, 9277
 Kumar, N. K. K. 6904
 Kumar, P. 4409
 Kumar, P. B. 8560
 Kumar, P. P. 7039, 10656
 Kumar, R. 4636, 6561, 6808, 6815
 Kumar, R. R. 2765, 8166
 Kumar, S. 855, 4198, 7146, 9981
 Kumar, V. 8092, 10745
 Kumar, V. A. 8545
 Kumar, V. J. F. 579
 Kumar, V. S. 5302
 Kumar, Y. 7929
 Kumaran, K. 5452
 Kumaran, P. M. 4589
 Kumaraswamy, A. S. 9559
 Kumaraswamy, B. K. 3545
 Kumaresan, D. 7991
 Kumari, P. S. 1359
 Kumashiro, K. 8519
 Kumata, A. 6071, 6981
 Kume, Y. 6544
 Kummuang, N. 9414
 Kumpuan, W. 5496
 Kun, Zs. 9256
 Kunal Gajaria 6281
 Kundu, S. 4618
 Kundu, S. S. 965
 Kunicki, E. 10378, 10489
 Kunii, Y. 6753
 Kunitake, H. 1214
 Kunkel, D. D. 7885
 Kunkel, T. 4438
 Künsch, U. 3129
 Kunter, B. 9263
 Kuntz, M. 1421
 Kunwar, R. 8090
 Kunz, C. 4312
 Kunz, P. 3789
 Kuo, C. C. 8741
 Kuo, M. C. 10021
 Kuo, T. C. 7382
 Kuo, W. H. J. 10633
 Kuo ChihChi 8741
 Kuo TungChing 7382
 Kupatt, C. C. 18
 Kupferman, E. M. 7521, 8336
 Kupferman, G. 7522-7523
 Küpper, W. 5442
 Kupferman, K. 97
 Kurahashi, T. 2871-2872
 Kuraishi, S. 6381
 Kurakov, V. I. 8051
 Kuran, H. 656
 Kuranuki, Y. 9089, 11001
 Kuraoka, M. 10698
 Kurapov, P. B. 4458
 Kurashima, H. 3159
 Kurata, K. 1901, 6953
 Kurata, M. 607
 Kurets, V. K. 5872
 Kurgat, M. 954
 Kurian, R. M. 5495
 Kurian Abraham 9948
 Kuribayashi, K. 4366
 Kurien, S. 5460
 Kurihara, A. 2999
 Kurihara, Y. 1697
 Kuriyama, A. 4555, 9829
 Kuriyama, M. 4013
 Kuriyan, K. J. 3517
 Kurkin, V. A. 5394
 Kuroda, H. 126, 6863, 10101
 Kuroda, M. 4689, 5199
 Kuroli, G. 8629
 Kurooka, H. 5743, 8482
 Kurosaki, F. 1485, 2327, 5137-5138
 Kurosawa, C. 9030
 Kurtela, M. 9640
 Kurteva, M. 7441
 Kurtzman, R. H., Jr. 565, 2346, 7846
 Kurupparachchi, D. S. P. 4037
 Kuruvilla, K. M. 2520, 6247
 Kurzweil, H. 2438
 Kush, A. 945
 Kushad, M. 2485
 Kushad, M. M. 1918, 1968, 5590
 Kushalappa, A. C. 8706
 Kushnerova, V. P. 1361
 Kushwaha, R. K. S. 7378
 Kusuhara, Y. 9685
 Kusukawa, M. 458
 Kusumo, S. 2776, 5556, 7379
 Kusunose, H. 820, 1701, 4535, 5411, 8938
 Kusztor, G. 8824
 Kutas, E. N. 4881
 Kuti, J. O. 7188
 Kutschera, U. 2209
 Kutsryavtseva, N. N. 5614
 Kuwabara, T. 7680
 Kuwahara, M. 3604
 Kuwahara, S. 6119
 Kuwana, T. 4013
 Kuwatsuka, S. 6800
 Kuzin, A. M. 392
 Kuźmicki, A. 1919
 Kuznetsov, V. N. 8410
 Kvåle, A. 93
 Kvamme, M. 5329
 Kvesitadze, G. 9524
 Kwa, S. H. 7039
 Kwa SiewHwa 7039
 Kwack, B. H. 10621, 10699, 10701, 10722
 Kwack BeyoungHwa 10621, 10699, 10701, 10722
 Kwak, S. 5399
 Kwak, S. H. 3126
 Kwan, W. Y. 7106
 Kwan WongYew 7106
 Kwantes, M. 1370, 3190
 Kwapata, M. 10054
 Kwerepe, B. 10054
 Kwesiga, F. 10054
 Kwon, H. J. 637
 Kwon, H. M. 3598
 Kwon, J. H. 10895
 Kwon, J. S. 507
 Kwon, K. C. 2218, 3074, 3672
 Kwon, O. C. 6103
 Kwon, O. G. 10232
 Kwon, S. W. 1341, 10774
 Kwon, T. R. 1495, 2108, 3165, 10584
 Kwon, T. Y. 2805, 3179, 8992
 Kwon, W. W. 3380
 Kwon, Y. J. 8992
 Kwon, Y. S. 330, 2302, 2385, 3165
 Kwon HyeJin 637
 Kwon HyeogMo 3598
 Kwon JinHyeuk 10895
 Kwon KyuChil 2218, 3074, 3672
 Kwon OhChang 6103
 Kwon OhGyen 10232
 Kwon SungWhan 10774
 Kwon TaeRyong 2108, 3165, 10584
 Kwon TaeYoung 2805, 8992
 Kwon WoWon 3380
 Kwon YoungJung 8992
 Kwon YoungSam 2385
 Kwon YoungSeok 330, 2302, 3165
 Kyalo, T. M. 6198
 Kyamuhangire, W. 5454
 Kyokawa, Y. 4325
 Kyoutani, H. 4809
 Kyparissis, A. 5289
 Kyriacou, M. C. 4246
 Kyriakou, A. 8078
 La Brijn, L. 9787
 La Brijn-Jansen, L. 9697
 La Croix, I. 10697
 La Malfa, G. 4211
 La Mantia, T. 10903
 La Notte, E. 311, 1257
 La Rocca, N. 4489, 7193
 Laamim, M. 5630, 6838
 Laarman, J. 7376

- Łabanowska, B. H. 3945, 5733, 8403-8404
 Labavitch, J. M. 5775
 Labeke, M. C. van 3413
 Laberge, C. 9784
 Labiad, S. N. 10874
 Laborda, R. 2611
 Laborén, G. 7262
 Labous, P. J. 1656
 Labrada, R. 319
 Labrecque, J. 6108
 Łabuda, H. 1380
 Labuschagne, P. 2347
 Lacan, D. 9047
 Lacarrère, P. 9386
 Lacasa, A. 3871, 4190
 Lacertosa, G. 4075
 Lachman, J. 6253
 Lachuud, S. 7122
 Lacroix, M. 8083
 Lacrotte, R. 937, 947
 Lacy, M. L. 6959
 Ladaniya, M. S. 2622
 Ladisch, M. R. 5852
 Laemmlein, F. F. 366
 Laere, A. van 7682, 9457
 Laferrière, J. E. 5249
 Laffi, F. 3085
 LaFlamme, L. 8021
 Lafontaine, P. J. 3113, 7812
 Lafuente, M. T. 4529, 6829, 7222, 7226, 7841, 8963, 8969
 Lagoke, S. T. O. 2319
 Lagouarde, J. P. 6153
 LaGrandeur, L. M. H. 10814
 Lagrimini, L. M. 6937
 Laguado, N. 6426
 Laguerre, G. 4220
 Laguna-Hernández, G. 5340
 Lagunes, D. A. R. 8132
 Lahav, E. 796, 2580
 Lahiri, S. 701, 8834
 Lahjouji, K. 8912
 Lahmann, O. 2335
 Lahourvaris, E. 3367
 Lahrichi, M. 9405
 Lai, C. C. 2357
 Lai, F. M. 7371
 Lai, F. Y. 3695, 5527
 Lai, J. 7235
 Lai, M. Z. 9775
 Lai, R. 3294
 Lai, S. H. 4035
 Lai, Z. X. 8939
 Lai ChienChou 2357
 Lai FaMao 7371
 Lai Jun 7235
 Lai MingZhi 9775
 Lai ZhongXiong 8939
 Laiche, A. J., Jr. 63
 Laila, H. M. 6293
 Laila, M. H. 6291
 Laing, J. E. 1967
 Laing, M. D. 3404
 Laing, W. A. 2234, 4486
 Laisk, A. 4111, 6609
 Lajoux, C. 7000
 Lakatos, T. 2073
 Lake, J. 2639
 Lakhanpal, T. N. 575, 7853
 Lakshmanan, K. 3641
 Lakshmanan, R. 9075
 Lal, G. 1441, 6896, 10443, 10941
 Lal, J. 7068
 Lal, M. 7268, 9029
 Lal, P. V. A. 2726
 Lal, S. 9048
 Lali, T. S. 3146
 Lalkhanpal, K. D. 10379
 Lalla, L. di 630
 Lallemand, J. 2320
 Laloue, M. 5977
 Lam, T. B. T. 1500
 Lam-Chan, L. T. 9765
 Lamade, E. 5500
 Lamarre, M. 7587
 Lamb, K. 5
 Lambers, H. 4162, 4236
 Lambert, K. 7647
 Lamberts, M. L. 6913
 Lambot, C. 1801
 Lambrinos, G. 140
 Lamer-Zarawska, E. 769
 Lamikanra, O. 3951, 4931
 LaMondia, J. A. 249
 Lamont, B. B. 1639, 7102-7103
 Lamont, E. E. 10694
 Lamont, W. J., Jr. 6414
 Lamparelli, F. 6356
 Lamparter, B. 405
 Lamport, D. T. A. 6940
 Lampppa, G. K. 1297
 Lamrani, Z. 324, 8568-8569, 8638
 Lamsfus, C. 8624
 Lamuela-Raventos, R. M. 2074
 Lan, T. H. 558
 Lana, I. K. 4587
 Lanakova, M. 9778
 Lanças, F. M. 5341
 Lancaster, J. E. 2135, 4033, 5622, 9202
 Lancaster, R. 1577, 2505, 3510, 4430, 5181, 8866, 8883, 9684, 10738
 Landi, S. 736, 1658
 Landrein, A. 5356
 Landrigan, M. 10023-10024
 Landry, P. 2101, 2104
 Lane, W. D. 1972, 6597, 9169, 9173, 9265
 Láng, F. 9509
 Lang, M. 10477, 10721
 Láng, Z. 8308
 Languaigne, S. 3951
 Langat, K. A. 954
 Langdon, P. 4575
 Langdon, P. W. 4477
 Lange, D. L. 4708
 Lange, E. 8310
 Lange, N. E. 3739
 Langer, V. 2115
 Langfermann, C. 4474
 Langhe, E. A. de 6377
 Langlais, G. 10125
 Langley, K. R. 10574
 Langrand, E. 8611
 Langthasa, S. 1664, 7205
 Langton, F. A. 5170
 Lanini, W. T. 7296, 9388, 9510
 Lankes, C. 3769, 4757, 5697
 Lannoy, P. 8190
 Lansac, A. R. 1644
 Lanteri, S. 9557
 Lanterman, W. S. 7074
 Lanza, B. 10886
 Laouedj, A. 3536
 Lapa, A. M. 3752
 Lapa, N. 2160
 Lapchin, L. 6202
 Lapeña, L. 1723, 4499
 Lapeyre de Bellaire, L. de 9013
 Lapins, K. O. 9173
 Lapsker, Z. 4832
 Laptiev, A. B. 3222
 Lara, M. A. 1300
 Laraki, J. 4636
 Lareau, M. 1202
 Lareau, M. J. 2053, 3935, 7587
 Larena, I. 6018
 LaRock, D. 2979
 Larrauri, J. A. 7832
 Larrigaudiere, C. 9204
 Larriba, J. 9896
 Larsen, B. 2365, 6030
 Larsen, F. E. 1934, 9266
 Larsen, J. 5018
 Larsen, R. U. 1541
 Larsen, S. 573
 Larson, D. J. 4747
 Larson, R. A. 1626
 Larsson, C. M. 9596
 Larsson, M. 9596
 Lascano, R. J. 8464
 Lascrain, R. 1609
 Laskar, M. A. 7016
 Lasota, J. A. 1092
 László, J. C. 306
 László, M. 8898
 Latché, A. 7824
 Lateef, M. F. A. A. 6332
 Latha, A. 1665, 2680
 Latha, P. 1665, 1668
 Latiff, L. A. 8722
 Latigo, G. V. 7188
 Latimer, J. G. 1811, 3542, 5089, 7423
 Latour, X. 4220
 Lattanzio, V. 7563
 Lau, O. L. 2917, 9173
 Lau, V. 5771
 Lau Dam Ku 5314
 Läuchli, A. 7688
 Lauciani, R. 10405
 Laudadio, V. 7564
 Lauderdale, D. M. 6211
 Laughlin, J. C. 7400, 8023
 Laurent, J. C. 6711
 Lauri, P. E. 1969, 4820, 5620
 Laurinen, E. 2801
 Lauteri, M. 7952
 Lauzer, D. 9784
 Lavana, M. L. 5451
 Lavana, S. K. 5451
 Lavana, U. C. 10795
 Lavault, S. 10846
 Lavee, S. 861, 4549, 4553, 8102
 Lavi, U. 2580
 Laville, E. 992
 Lavoie, L. 6954
 Lavoisier, C. 7456
 Lavrukhina, O. G. 5964
 Law, I. H. 9985, 10982
 Law, R. D. 2679
 Lawand, B. T. 3630
 Lawande, K. E. 4134, 9613
 Lawrence, A. 9001
 Lawrence, B. M. 8183
 Lawrence, F. J. 1204
 Lawrence, K. C. 2019, 5668
 Lawrence, N. J. 4011
 Laws, N. 10695
 Lawson, G. 10039
 Lawson, R. H. 8179
 Laxaman Singh 9857
 Lay-Yee, M. 2584
 Layne, R. E. C. 9290
 Lazan, H. 2733
 Lazaraki, M. 8988
 Lazarov, I. 9278-9279, 9281
 Lazzaro, G. 8438
 Le Bohec, J. 6474
 Le Clerc, M. H. 8865
 Le Coeur, C. 5356
 Le Deunff, Y. 1389
 Le Duc, A. 9805
 Le Duc Khanh 1960
 Le Grange, E. W. 8433
 Le Marchant-Smith, D. L. 3504
 Le Mière, P. 6677
 Le Nard, M. 7022
 Le Pivert, J. M. 3383
 Le Quillec, S. 9573
 Le Rouic, I. 4321
 Lea-Cox, J. D. 4504
 Leach, D. N. 5490
 Leach, D. W. 4770
 Leadbeater, A. J. 3337
 Leahy, M. M. 4670
 Leahy, R. M. 9648
 Leake, J. R. 8414
 Leakey, R. R. B. 4263
 Leal, F. 7347
 Leal, F. R. 10557
 Leandri, A. 1762, 7421
 Leandro, K. C. 10064
 Leavitt, G. 9395
 Leavitt, G. M. 5759
 Lebeault, J. M. 564
 Lebeda, A. 5887
 Lebedev, N. N. 5024
 Lebegin, S. 4493
 Lebibet, D. 887
 LeBlanc, P. 7833
 Lebugle, A. 2259
 Lech, M. 2030
 Lech, W. 2030
 Lecharpentier, P. 6710
 Lechowski, Z. 3302, 8690
 Lechtenberg, M. 4387
 Leclercq, M. 10225
 Lecoeur, J. 3217
 Lecomte, P. 1086, 7456
 Leddet, C. 5763
 Ledeunff, Y. 10508
 Ledo, A. da S. 10907
 Ledore, F. 6617
 Lee, B. M. 9221
 Lee, B. R. 7033
 Lee, B. S. 10551
 Lee, C. F. 1808
 Lee, C. H. 7780, 10347, 10351
 Lee, C. L. 2015
 Lee, C. U. 10157
 Lee, C. W. 1566, 4291, 9692, 10670
 Lee, D. 6512
 Lee, D. C. 9221
 Lee, D. K. 2085, 2103
 Lee, D. W. 692, 697, 10483
 Lee, D. Y. 8739
 Lee, E. H. 507
 Lee, E. M. 3025
 Lee, G. H. 5108, 6037
 Lee, G. S. 2831
 Lee, G. W. 4463, 4606
 Lee, H. J. 6255, 8001
 Lee, H. K. 10631
 Lee, H. S. 330, 2175, 7869
 Lee, H. U. 3358, 3628, 5150
 Lee, H. Y. 5880
 Lee, I. K. 6207
 Lee, J. 2406
 Lee, J. H. 9852, 10445, 10935
 Lee, J. I. 10782
 Lee, J. J. 10774
 Lee, J. M. 2262, 3145, 10459
 Lee, J. O. 2831, 3100
 Lee, J. S. 692, 1519, 1534, 2385, 6087, 6090, 6855, 10621, 10687-10688
 Lee, J. T. 3435
 Lee, J. W. 507, 7511, 8230
 Lee, K. H. 893, 9021
 Lee, K. J. 8737
 Lee, K. K. 3416, 3434
 Lee, K. M. 8218
 Lee, K. N. 8733
 Lee, K. S. 10645
 Lee, L. J. 6434
 Lee, L. M. 4517
 Lee, L. W. 5395, 5408
 Lee, M. H. 2891, 3358, 3628, 4514, 5150
 Lee, M. J. 10544
 Lee, P. M. 893
 Lee, P. O. 1534
 Lee, R. R. 10094
 Lee, S. A. 37
 Lee, S. D. 3358, 3628, 5150
 Lee, S. G. 2831
 Lee, S. H. 5880, 7511, 10462, 10480
 Lee, S. K. 637, 1115, 1332, 1473, 5129, 5886, 10354, 10565, 10568-10571
 Lee, S. M. 9765, 10347, 10351
 Lee, S. P. 1495, 2108, 10584
 Lee, S. R. 9636
 Lee, S. S. 1260, 1263, 2180, 9449, 9470-9471
 Lee, S. T. 10782, 10789
 Lee, S. W. 2891
 Lee, S. Y. 9374
 Lee, T. S. 6069
 Lee, W. J. 3432
 Lee, W. K. 6069
 Lee, W. S. 3069, 3179, 5880, 10232, 10523
 Lee, W. W. 2405
 Lee, Y. B. 3074
 Lee, Y. C. 10350
 Lee, Y. D. 346, 10505
 Lee, Y. S. 3358, 3628, 5150, 6855
 Lee ByoungMoo 9221
 Lee ChangHoo 10347, 10351
 Lee ChangUn 10157
 Lee ChengLee 2015
 Lee DaeWeon 10483
 Lee DarYuan 8739
 Lee DongChang 9221
 Lee DongWoo 692, 697

- Lee DonKyun 2085, 2103
 Lee EunMo 3025
 Lee GiWoo 4463, 4606
 Lee GwanSeok 2831
 Lee GwiHyun 6037
 Lee GyungHee 5108
 Lee HaYoon 5880
 Lee HoonKyu 10631
 Lee HyongJoo 6255
 Lee HyunSook 2175, 7869
 Lee HyunSuk 330
 Lee HyunUk 3358, 3628, 5150
 Lee InKuk 6207
 Lee JaeHan 10935
 Lee JeangOon 2831, 3100
 Lee Jeng 2406
 Lee JeongSik 692, 1519, 10687-10688
 Lee JeongTaek 3435
 Lee JinJae 10774
 Lee JinMo 2262
 Lee JongSuk 1534, 2385, 6087, 6090, 10621
 Lee JoonSang 6855
 Lee JungHo 9852
 Lee JungIl 10782
 Lee JungMyung 10459
 Lee KeeKwoun 3416
 Lee KwangNam 8733
 Lee KyeongKoog 3434
 Lee KyeongSoon 10645
 Lee KyungJoon 8737
 Lee LimJung 6434
 Lee MinHsiung 4514
 Lee MoonHong 2891
 Lee MoonJung 10544
 Lee MyungHwan 3358, 3628, 5150
 Lee PoongOk 1534
 Lee SangDae 3358, 3628, 5150
 Lee SangGuei 2831
 Lee SangHo 5880, 10462, 10480
 Lee SangYang 9374
 Lee SeongPhil 2108, 10584
 Lee SeoungMin 10347, 10351
 Lee SeoungTack 10782, 10789
 Lee SeungKoo 637, 1115, 1473, 5886, 10354, 10565, 10568-10571
 Lee SeungRock 9636
 Lee SingKong 1332
 Lee SoonWoon 2891
 Lee SukSoon 1263, 9449, 9470-9471
 Lee TaiSoo 6069
 Lee WonKyu 6069
 Lee WonSik 3069, 10232
 Lee WonWoo 2405
 Lee WoonJik 3432
 Lee WooSung 5880, 10523
 Lee YanDan 10505
 Lee YongBum 3074
 Lee YoungCheul 10350
 Lee YoungSook 6855
 Lee YuSik 3358, 3628, 5150
 Leegood, R. C. 2212, 8226
 Leela, M. 6998
 Lees, G. L. 5633
 Leeuwen, A. A. van 8567
 Leeuwen-Haagsma, W. K. van 8201
 Lefebvre, C. 2390
 Legaspi, B. C., Jr. 9044
 Legaspi, J. C. 9044
 Legaz, F. 8062
 Legendre, L. 7634
 Léger, A. 1427, 3285, 6930
 Legha, P. K. 440
 Lehman, J. 10894
 Lehman-Salada, L. 58
 Lehmann, S. 4714
 Lehmhus, J. 7710
 Lehoczy, É. 8465, 8515
 Lehotay, S. J. 888
 Lei, Z. Z. 955
 Leibee, G. L. 1335
 Leidreiter, K. 10404
 Leifert, C. 10067
 Leineweber, K. 1385
 Leinhos, V. 4992
 Leis, M. 5714-5716
 Leist, N. 10633
 Leita, L. 107, 7746
 Leitner, E. 2070
 Leja, M. 1317, 2170-2172
 Lelandais, M. 9538
 Lelieveld, J. F. 3822
 Lelièvre, J. M. 7824
 Leljak, D. 3187
 Lelley, J. 3366, 8727
 Lelley, J. I. 2339, 6985
 Lelli, A. 3932, 4883
 Lellouche, J. P. 5796
 Leloup, C. 2511
 Lemaire, F. 3477
 Lemanceau, P. 4220
 Lemeur, R. 7050
 Lemiere, J. P. 1286
 Lemieux, G. H. 233
 Lemma, T. 5526
 Lemmich, E. 2563, 9843
 Lemoine, J. 4840, 7456, 8357
 Lemoine, R. 555
 Lemontey, J. M. 4634
 Lemos, E. E. P. 7263
 Lemos Filho, J. P. de 10990
 Lenfant, C. 2708
 Lenka, D. 488
 Lenka, P. C. 3653, 9086
 Lenna, P. di 7921
 Lenteren, J. C. van 987, 4141
 Lentza-Rizos, C. 2010, 10224
 Lenz, F. 2913, 3015, 5676, 7488, 10126, 10301
 Leo, A. di 1152
 Leocata, S. 8067
 León, B. 5479, 10389
 León, B. de 333
 Leon, C. 2839
 León, W. 7211
 Leon de la Luz, J. L. 9744
 León Fuentes, J. 8241
 Leonard, R. T. 4328, 9746, 9779
 Leonardi, C. 4211, 4264, 8623
 Leonardos, E. D. 10654
 Leone, A. M. 311, 4979
 Leone, V. 569-570
 Leong, S. 4931
 Leonhardt, W. 5781
 Leoni, C. 6005
 Leoni, S. 354, 5564
 Leopold, A. C. 436
 Lepot, L. 6871
 Leprince, O. 420
 Lequizamón, J. 5481
 Lercari, B. 7883, 8790
 Lerdthanangkul, S. 8639
 Lerna, A. 4067
 Leroux, G. 2440
 Leroux, G. D. 1326, 6955
 Lesage, P. 6040
 Lesage, V. 1922
 Lescure, O. 9411
 Lesdalons, C. 10918
 Leshem, Y. Y. 9540
 Leskovar, D. I. 321, 1272, 2147, 9483
 Leslie, A. 8852
 Leslie, A. C. 3699, 3703
 Leslie, J. D. 6046
 Leśniak, A. 1991
 Lesourd, D. 9573
 Lespinasse, J. M. 5620
 Lespy-Labayette, P. 275
 Lessire, R. 5795-5796
 Lester, G. 4613, 5491
 Lester, G. E. 10937
 Leszczyńska-Borys, H. 5178, 5208, 5227, 5237
 Letard, M. 6, 7410, 9573
 Letchamo, W. 1672, 3530, 4445, 7179
 Letchumanan, A. 10980
 Leteinturier, J. 7410
 Leth, P. van 10150, 10281
 Letham, D. B. 10374
 Leto, C. 5317
 Letourneau, D. K. 6914
 Letunova, S. V. 7742
 Leung, D. W. M. 7889
 Leuprecht, B. 523
 Leuschner, C. 3219
 Leuthold, L. 2428
 Leutscher, K. J. 1528
 Leuven, F. van 10458
 Lev, E. 3176
 Levannier, K. 5796
 Leven, J. van 't 3736
 Levetin, E. 2791
 Levi, P. 6526
 Leviatov, S. 1439
 Levin, A. 184
 Levin, C. E. 548
 Levin, G. M. 2659
 Levin, J. 3566, 3577, 4484, 9870
 Levin, J. B. 3381
 Levin, R. E. 5316
 Lew, E. L. 6769
 Lewandowska, M. 4730
 Lewen, K. 9823
 Lewinsohn, E. 611
 Lewis, B. E. 2979
 Lewis, J. A. 1423, 10528
 Lewis, P. M. 9671
 Lewis, R. J. 10809
 Lewke, A. 10368
 Lezhneva, I. P. 7649
 Lhernould, S. 7820
 Li, A. 568
 Li, A. M. 9171
 Li, A. N. 1759, 1834, 7337
 Li, B. 10577
 Li, B. J. 930, 4732, 6992
 Li, B. T. 8892
 Li, B. Y. 2755, 11016
 Li, C. 649, 5643
 Li, C. B. 10848
 Li, C. H. 4296, 6460
 Li, C. J. 1396
 Li, D. 1278
 Li, D. F. 1927
 Li, D. G. 3589
 Li, D. H. 129, 8449
 Li, D. K. 11014
 Li, D. Y. 3442, 6765, 7035
 Li, D. Z. 10742
 Li, F. 843, 2624, 4490, 10665
 Li, F. C. 1739
 Li, F. G. 6974
 Li, F. N. 4584
 Li, G. C. 1696
 Li, G. K. 9873
 Li, G. L. 1103
 Li, G. R. 10478
 Li, G. Y. 1189, 6606
 Li, H. 10067
 Li, H. J. 1685
 Li, H. X. 1440, 1927, 8596
 Li, H. Y. 157, 5608, 6975
 Li, J. 1141, 6767
 Li, J. B. 4502
 Li, J. G. 1347, 3615, 4544, 8978
 Li, J. H. 1974
 Li, J. J. 649, 6900
 Li, J. L. 6595
 Li, J. R. 210, 969, 2038, 2758, 3911
 Li, J. S. 4976, 8978
 Li, J. X. 6958
 Li, K. Y. 4345
 Li, K. Z. 4041
 Li, L. 1054, 3317, 4273
 Li, L. C. 4818
 Li, L. J. 8814
 Li, L. P. 6627
 Li, L. Y. 6051
 Li, M. 10227, 10665
 Li, M. L. 1183
 Li, M. Q. 867, 1834, 5326, 7253, 10890
 Li, M. X. 4043
 Li, M. Y. 7051
 Li, N. H. 7354
 Li, P. F. 1228
 Li, P. X. 1063
 Li, Q. 2854, 6975, 10775
 Li, Q. L. 8730
 Li, Q. T. 1497
 Li, Q. Y. 10798
 Li, Q. Z. 3774
 Li, R. 10402
 Li, R. B. 10203
 Li, R. G. 7014
 Li, R. Q. 10452
 Li, R. X. 8032
 Li, S. 1901
 Li, S. C. 5748, 8931
 Li, S. F. 2762-2763
 Li, S. H. 1106, 2909
 Li, S. J. 368, 1312, 3254, 4076, 4080, 4087, 6784, 10432
 Li, S. L. 1413, 5671
 Li, S. M. 10790
 Li, S. S. 936
 Li, S. W. 8379
 Li, S. X. 3303
 Li, S. Y. 1737, 3605
 Li, T. D. 9840
 Li, T. H. 1106, 2909, 10650
 Li, W. X. 827
 Li, W. Z. 1995
 Li, X. D. 302
 Li, X. K. 4281
 Li, X. L. 2768, 8032
 Li, X. M. 4273
 Li, X. P. 4633
 Li, X. R. 6832
 Li, X. T. 6595
 Li, X. X. 9038
 Li, X. Z. 2304, 4311, 8972
 Li, Y. 3837, 4089
 Li, Y. B. 9953
 Li, Y. C. 2151
 Li, Y. D. 1200, 1951, 6647, 6665
 Li, Y. G. 167
 Li, Y. H. 3014, 4085
 Li, Y. J. 8931
 Li, Y. N. 5623
 Li, Y. T. 1927
 Li, Y. X. 4354, 7177
 Li, Y. Z. 10407
 Li, Z. 517
 Li, Z. D. 1696
 Li, Z. H. 1038-1039, 4141, 7199, 10250
 Li, Z. J. 8995
 Li, Z. L. 1105, 2014-2015
 Li, Z. Q. 2868
 Li, Z. S. 1117, 3801
 Li, Z. X. 9042, 9331
 Li, Z. Y. 326
 Li AiMin 9171
 Li AnNi 1759, 1834, 7337
 Li BaiYing 2755
 Li BaoJian 930, 6992
 Li BaoJiang 4732
 Li Bo 10577
 Li ChangHai 4296
 Li ChunHua 6460
 Li DaFu 1927
 Li DaoGao 3589
 Li DeHua 8449
 Li DengKai 11014
 Li DeYao 6765
 Li DeYing 3442, 7035
 Li DeZhu 10742
 Li DongHui 129
 Li Fang 843, 2624
 Li Feng 10665
 Li FengNian 4584
 Li FuCheng 1739
 Li GangLi 1103
 Li GuangRen 10478
 Li GuangYu 1189
 Li GuiCheng 1696
 Li GuoKang 9873
 Li GuoYuan 6606
 Li Hong 10067
 Li HongYin 6975
 Li HuanXiu 1927, 8596
 Li HuiJuan 1685
 Li JiaJin 6900
 Li Jiang 1141
 Li JiangLin 6595
 Li JianGuang 8978
 Li JianGuo 3615, 4544
 Li JianShu 8978
 Li JiaRen 2758
 Li JiaRui 210, 969, 2038, 3911

- Li JiaXu 6958
 Li JingBo 4502
 Li JinHui 1974
 Li JunSheng 4976
 Li KeYun 4345
 Li KunZhang 4041
 Li Lei 4273
 Li Li 3317
 Li LianCheng 4818
 Li LiangJun 8814
 Li LinYan 6051
 Li LiPing 6627
 Li MaoXue 4043
 Li Min 10665
 Li MingQi 867, 1834, 5326, 7253, 10890
 Li MinYi 7051
 Li NanHua 7354
 Li PengXiang 1063
 Li Qi 10775
 Li Qiang 6975
 Li QiLiang 8730
 Li QingYu 10798
 Li QingZhan 3774
 Li QiTeng 1497
 Li Quan 2854
 Li RenGui 7014
 Li Rong 14042
 Li RongQian 10452
 Li RuBai 10203
 Li RunXia 8032
 Li SanYu 1737, 3605
 Li ShaoHua 2909
 Li ShengChen 5748
 Li ShiJun 368, 1312, 3254, 4076, 4080, 4087, 6784, 10432
 Li ShuangShun 936
 Li ShuChuan 8931
 Li ShuFang 2762
 Li ShuLing 5671
 Li ShuMing 10790
 Li ShunWang 8379
 Li ShuXan 3303
 Li SuFang 2763
 Li TianHong 2909
 Li TongHua 10650
 Li TsongDao 9840
 Li WenZhong 1995
 Li XiangDong 302
 Li XianZhang 4311
 Li XiaoLin 2768
 Li XiKun 4281
 Li XiMei 4273
 Li XinTang 6595
 Li XiouRu 6832
 Li XiuLian 8032
 Li XiuXiu 9038
 Li XuePing 4633
 Li XueZhu 8972
 Li YaDong 1200, 6647, 6665
 Li YanHong 4085
 Li YanHua 3014
 Li Ye 3837
 Li YingZhang 10407
 Li YouGang 167
 Li Yu 4089
 Li YuChun 2151
 Li YuDing 1951
 Li YuJun 8931
 Li YuNong 5623
 Li YunXiang 7177
 Li YuTang 1927
 Li YuXiang 4354
 Li ZaiLong 1105, 2014
 Li ZeHua 7199
 Li ZengXin 9042
 Li ZhaoHua 4141
 Li ZhengLi 2015
 Li ZhenHai 1038-1039
 Li ZhenHua 10250
 Li ZhenSan 1117, 3801
 Li ZongDo 1696
 Li ZongJuan 8995
 Li ZuoXuan 9331
 Lian, B. Z. 613
 Lian, S. 3585
 Lian, Z. H. 1268, 6736
 Lian BenZhong 613
 Lian Shen 3585
 Lian ZhaoHuang 1268, 6736
 Liang, B. 2403, 4244
 Liang, C. F. 7641
 Liang, G. L. 2768
 Liang, G. W. 2598, 7206
 Liang, H. G. 2315
 Liang, H. M. 3188, 4129, 6520
 Liang, L. F. 886, 1786, 3651
 Liang, L. S. 2357, 8493
 Liang, M. Q. 4710
 Liang, S. F. 2525
 Liang, S. H. 4113
 Liang, S. M. 5695
 Liang, S. Y. 6189
 Liang, T. 6354
 Liang, X. N. 2672
 Liang, X. Y. 1600, 1602
 Liang, Y. 3684, 4429
 Liang, Y. G. 7233
 Liang, Y. H. 664
 Liang, Y. R. 6462
 Liang, Z. 2151
 Liang Bin 2403, 4244
 Liang ChengFu 7641
 Liang GuangWen 2598, 7206
 Liang GuoLu 2768
 Liang HaiMan 3188, 4129
 Liang HouGuo 2315
 Liang HuiMin 6520
 Liang LienSheng 2357, 8493
 Liang LiFeng 886, 1786, 3651
 Liang MingQing 4710
 Liang SenMiao 5695
 Liang ShengYeh 6189
 Liang ShuFang 2525
 Liang ShuHua 4113
 Liang Tung 6354
 Liang XiNan 2672
 Liang XuYe 1600, 1602
 Liang Yu 4429
 Liang YuangGang 7233
 Liang YuanHui 664
 Liang YueRong 6462
 Liang Zheng 2151
 Liao, C. K. 6161
 Liao, C. T. 10465
 Liao, J. H. 6974
 Liao, J. P. 1661, 2538
 Liao, J. S. 7237
 Liao, K. 1141
 Liao, M. H. 8741
 Liao, Q. A. 5674
 Liao, Y. F. 1813
 Liao ChongKang 6161
 Liao ChungTa 10465
 Liao JingPing 1661, 2538
 Liao JingSi 7237
 Liao Kang 1141
 Liao MingHuei 8741
 Liao QingAn 5674
 Liao YingFen 1813
 Liapis, K. S. 1987
 Liaud, F. 6622
 Libbey, C. 8548
 Libik, A. 483, 1021, 8690, 9419
 Liccardi, G. 9912
 Lichev, V. 10210
 Lichou, J. 1988, 2005, 6594, 7516, 9255, 9261
 Lichtenthaler, H. K. 9123, 10477, 10721
 Ličina, V. 3047, 3051
 Lickfeldt, D. W. 8812
 Licznar, S. 8271
 Licznar-Małańczuk, M. 8271
 Lidén, M. 5164
 Lider, L. A. 6688
 Lidón, A. L. 6327
 Lieberei, R. 877, 7348
 Liegeois, S. 7217
 Lieng, J. 8932
 Lieng Juan 8932
 Lieres, A. L. von 3522, 5322
 Liersch, R. 6290
 Lieten, F. 1206, 1208, 3019, 5723, 5728-5729, 6671, 6673-6674, 9357, 9359-9360, 9364, 10288, 10292, 10295-10296
 Lieten, P. 6675
 Lieth, H. 8863
 Lieth, J. H. 9704, 9780
 Liflyandskii, V. G. 9439
 Ligerio, F. 2241, 5955
 Ligetvári, F. 9184
 Lightner, G. W. 4770
 Ligonnière, G. 4769
 Lill, R. E. 3193, 5988
 Lim, A. L. 8616
 Lim, C. L. 10878
 Lim, D. H. K. 2685
 Lim, G. 7010
 Lim, H. T. 735
 Lim, J. H. 330, 1535, 2302, 3165
 Lim, J. W. 2218, 3074, 3672
 Lim, T. K. 9983
 Lim HakTae 735
 Lim JaeHa 330, 2302, 3165
 Lim JaeWook 2218, 3074, 3672
 Lim JoungHyun 1535
 Lima, A. A. de 940
 Lima, A. N. 7044
 Lima, G. 7563
 Lima, H. 7212
 Lima, J. L. F. C. 4939
 Lima, M. G. de 10557
 Lima, M. I. P. M. 9076
 Lima, R. 10064
 Limwado, G. M. 5511, 9096, 10009, 10013
 Lin, B. M. 3608
 Lin, B. N. 8451, 10314
 Lin, C. C. 1680
 Lin, C. H. 915, 5797, 9515, 10465
 Lin, C. N. 1776
 Lin, D. W. 613
 Lin, G. R. 4732
 Lin, G. Z. 936
 Lin, H. 8043
 Lin, H. H. 10692
 Lin, I. J. 2703
 Lin, J. H. 270
 Lin, J. Y. 1808, 4271
 Lin, L. 4567
 Lin, M. 830
 Lin, M. H. 6783
 Lin, M. L. 2496
 Lin, P. H. 6428
 Lin, Q. 8687
 Lin, Q. L. 5423
 Lin, R. H. 4271
 Lin, S. 7163
 Lin, S. F. 8961
 Lin, S. Q. 3684, 5423, 9904
 Lin, T. T. 5860
 Lin, W. C. 5017
 Lin, W. Q. 8020
 Lin, W. W. 664
 Lin, X. H. 4421
 Lin, X. L. 8044
 Lin, Y. F. 9873
 Lin, Y. J. 8107
 Lin, Y. K. 5981
 Lin, Y. L. P. 6120
 Lin, Y. S. 2450
 Lin, Y. Z. 5669
 Lin, Z. F. 936, 3828, 3837
 Lin, Z. H. 6564
 Lin, Z. L. 8043
 Lin ChingHo 915
 Lin ChinHo 9515, 10465
 Lin ChunChing 1680
 Lin ChunNan 1776
 Lin DaWei 613
 Lin GuiRong 4732
 Lin GuiZhu 936
 Lin Han 8043
 Lin HongHui 10692
 Lin JiaHsing 270
 Lin JungYaw 4271
 Lin Lu 4567
 Lin MengHuei 6783
 Lin PoHsiung 6428
 Lin QingLiang 5423
 Lin Quan 8687
 Lin RongHwa 4271
 Lin ShunQuan 5423, 9904
 Lin TaTe 5860
 Lin WeiWen 664
 Lin WenQun 8020
 Lin XiangLian 8044
 Lin XiaoHong 4421
 Lin YaKang 5981
 Lin YiZhu 5669
 Lin YunFang 9873
 Lin ZhiFang 936
 Lin ZhiFen 3837
 Lin ZhiFeng 3828
 Lin ZhiLiang 8043
 Lindén, L. 5601
 Linder, C. 3748, 10298
 Linder, D. 4149
 Lindhorst, R. 341
 Lindner, U. 8497
 Lindquist, R. K. 1868
 Lindsay, J. G. 5243
 Lindstrom, O. M. 3469, 6195-6196, 7423, 9782
 Ling, D. H. 6339
 Ling, L. C. 547, 549
 Ling, L. J. 6784, 10432
 Ling, M. 9748
 Ling, P. P. 490, 1893, 7294, 9133
 Ling, Y. P. 3509
 Ling, Y. Z. 5674
 Ling, Z. F. 3631, 10061
 Ling DaiHong 6339
 Ling LiJuan 6784, 10432
 Ling PingPing 9133
 Ling YuPing 3509
 Ling ZhiFen 10061
 Ling ZhiFeng 3631
 Lingappa, S. 1337
 Linger, P. 3295
 Link, H. 1058
 Linke, M. 1318
 Linna, M. M. 2801
 Linscheid, M. 2536
 Linskens, H. F. 6473, 6683, 8989
 Linsley-Noakes, G. C. 10215
 Linvill, D. E. 2300
 Linville, S. U. 4298
 Lionakis, S. 2039, 3917
 Lionakis, S. M. 4550
 Lipecki, J. 1944-1945, 1955, 1991, 4771
 Lipecki, M. 1944
 Lipov, A. Yu. 6505, 6728, 7413
 Lipov, Yu. N. 6505, 6728, 7413
 Lippert, F. 388
 Lippmann, C. 428-429
 Lips, S. H. 1449, 3581, 4236
 Lipucci di Paola, M. 5019
 Lis-Balchin, M. 2546
 Lisa, L. 5758, 6713, 8461
 Lisamma Joseph 8923
 Lisek, A. 8259
 Lisek, J. 7618
 Lisiewska, Z. 469
 Lisker, N. 6724
 Lišková, D. 5974
 List, S. 8904
 Lister, C. E. 5622, 9202
 Litsinger, J. A. 2287
 Litterick, A. 10718
 Litterick, A. M. 3479
 Little, R. M. 7487
 Littlefield, L. E. 3468
 Littlefield, S. 6512
 Littlejohn, R. P. 8919
 Litvinenko, V. 5307
 Litvinenko, V. I. 8033
 Litz, R. E. 2721, 7322, 7328
 Liu, A. 1811
 Liu, A. D. 3136
 Liu, A. H. 4852
 Liu, B. Y. 955
 Liu, C. 3405
 Liu, C. L. 1112, 3802, 3894, 8314
 Liu, C. M. 7233
 Liu, C. R. 843
 Liu, C. Y. 8369
 Liu, C. Z. 9984
 Liu, D. 1285, 9436
 Liu, D. H. 1278, 4041, 4043, 4644, 5794
 Liu, D. L. 10843
 Liu, D. S. 36
 Liu, D. W. 8379
 Liu, F. C. 4224

- Liu, F. J. 4732
 Liu, F. X. 10315
 Liu, G. C. 1974
 Liu, G. H. 4864
 Liu, G. Q. 2551, 6960
 Liu, H. 4010, 6573, 6630
 Liu, H. I. 6964
 Liu, H. L. 1995, 4056
 Liu, H. W. 4323-4324, 4327
 Liu, H. Y. 10208
 Liu, H. Z. 1106, 2909, 6648
 Liu, J. 3136, 6851, 8432, 8562, 10493
 Liu, J. F. 7234
 Liu, J. H. 1971, 9102
 Liu, J. J. 1060, 3961, 4516, 5035
 Liu, J. Q. 8020
 Liu, J. R. 1345, 8546, 10749
 Liu, J. S. 3254
 Liu, J. Y. 10197
 Liu, K. Y. 1971, 6574
 Liu, L. 2078
 Liu, L. X. 2182, 3066, 4143, 8808
 Liu, L. Y. 10112
 Liu, M. C. 1352, 8580
 Liu, M. S. 8504
 Liu, P. Q. 1920
 Liu, Q. 8977
 Liu, Q. H. 2015
 Liu, Q. J. 2770
 Liu, Q. X. 6288
 Liu, R. J. 1920, 3802
 Liu, S. 1953, 7237
 Liu, S. B. 9284
 Liu, S. G. 2760
 Liu, S. H. 10207
 Liu, S. J. 120, 4900
 Liu, S. M. 7014
 Liu, S. X. 9953, 10207
 Liu, S. Y. 1680, 6964
 Liu, S. Z. 1268, 6736, 9465
 Liu, T. X. 6022
 Liu, W. H. 6454
 Liu, W. L. 133, 4014
 Liu, W. S. 9318
 Liu, W. T. 1343
 Liu, W. W. 7233
 Liu, X. 6000
 Liu, X. B. 11014
 Liu, X. C. 1067
 Liu, X. D. 4327
 Liu, X. H. 856, 8974
 Liu, X. J. 6455, 7340
 Liu, X. L. 2633
 Liu, X. M. 657, 2553-2554, 10268
 Liu, X. Q. 10794
 Liu, X. S. 258, 1155
 Liu, X. Y. 8486
 Liu, Y. 1461, 1463, 2315
 Liu, Y. J. 125, 2883, 10112
 Liu, Y. L. 1185
 Liu, Y. M. 2550
 Liu, Y. Q. 1532, 2288, 4206, 8651-8652
 Liu, Y. S. 1084, 6606
 Liu, Y. T. 10121
 Liu, Y. W. 8945
 Liu, Z. 1141
 Liu, Z. F. 1340
 Liu, Z. J. 3131
 Liu, Z. L. 7168
 Liu, Z. M. 2608, 8071
 Liu, Z. Q. 1163
 Liu, Z. R. 7172
 Liu, Z. S. 3684, 6462
 Liu, Z. Y. 5599
 Liu AiDong 3136
 Liu CaiLi 3894
 Liu ChaoZhen 9984
 Liu ChengLian 1112, 3802, 8314
 Liu ChengMing 7233
 Liu ChengYan 8369
 Liu Chun 3405
 Liu ChunRong 843
 Liu DeHua 4644, 5794
 Liu DingWu 8379
 Liu DongHua 4041, 4043
 Liu FengJun 4732
 Liu FuChun 4224
 Liu GouCheng 1974
 Liu GuangQian 2551
 Liu GuoHua 4864
 Liu GuoQin 6960
 Liu HanYun 10208
 Liu He 6573, 6630
 Liu HengLie 1995
 Liu HongWei 4323-4324, 4327
 Liu HongZhang 6648
 Liu HsingLung 4056
 Liu Hu 4010
 Liu HuaZhi 2909
 Liu HueyIng 6964
 Liu JangR 8546
 Liu JiaJu 3961
 Liu Jian 3136, 6851, 10493
 Liu JianFeng 7234
 Liu JianHua 1971, 9102
 Liu JianJun 4516
 Liu JianQiu 8020
 Liu JiaYu 10197
 Liu Jie 8562
 Liu JinSheng 3254
 Liu Jun 8432
 Liu KuiYing 1971, 6574
 Liu LiangXue 2182
 Liu LiXi 3066
 Liu LiXin 4143
 Liu MingChi 8580
 Liu MingSai 8504
 Liu PengQi 1920
 Liu QingHua 2015
 Liu QinJin 2770
 Liu QiXin 6288
 Liu Quan 8977
 Liu RunJin 1920, 3802
 Liu SanJun 4900
 Liu ShangBin 9284
 Liu ShaoXian 10207
 Liu ShiGui 2760
 Liu ShiZhe 1268, 6736, 9465
 Liu Shu 7237
 Liu ShuMing 7014
 Liu SinYie 1680, 6964
 Liu Su 1953
 Liu SuHua 10207
 Liu WeiHua 6454
 Liu WeiSheng 9318
 Liu WeiTang 1343
 Liu WeiWen 7233
 Liu WenLong 4014
 Liu WuLin 133
 Liu XiangMin 2553-2554
 Liu XianShun 258
 Liu XiaoDong 4327
 Liu XiaoMing 10268
 Liu XiaoYi 8486
 Liu XingHui 856, 8974
 Liu XiuJuan 7340
 Liu XiuShu 1155
 Liu XuanMing 657
 Liu XueBin 11014
 Liu XunJian 6455
 Liu XuQin 10794
 Liu YongJun 125, 2883
 Liu YongQing 2288, 4206, 8651-8652
 Liu YongSheng 6606
 Liu YouQi 1532
 Liu Yu 1461, 1463, 2315
 Liu YueMei 2550
 Liu Zhan 1141
 Liu ZhaoRong 7172
 Liu ZhenJun 3131
 Liu ZhiQiang 1163
 Liu ZiLie 7168
 Liu ZuSheng 6462
 Liuzzi, V. A. 311, 1257
 Liverani, A. 3844
 Liverani, C. 9298, 9312
 Livingston, S. 2407
 Livezey, J. N. 7822
 Ljubešić, N. 3506, 4193
 Llano-Agudelo, B. E. 4476
 Llimous, G. H. 7417, 9060
 Lloret, P. G. 6758, 10387
 Lloveras, J. 8341
 Lloyd, C. W. 7759
 Lloyd, J. 4541
 Lluch, C. 2241, 5955
 Lo, C. T. 6994
 Lo, P. L. 9296
 Lo, S. Z. 3183
 Lo ChaurTseun 6994
 Lo Gullo, M. A. 5287
 Lo ShuZhen 3183
 Lobato S., A. 7542, 7628
 Lobefalo, G. 9912
 Löbker, B. 3387
 Lobnik, F. 10418, 10437
 Lobo, G. 931
 Lobo, M. G. 9993
 Lobo, R. 7403
 Locascio, S. J. 4215, 5095, 10546
 Lock, G. M. 6142
 Lockwood, G. 2685, 4591
 Lodha, S. 745
 Loebenstein, G. 8179
 Loeffen, H. 9629
 Loeser, H. 3700
 Loew, J. T. 8416
 Logan, B. A. 709
 Logan, J. 3195
 Logemann, E. 1667
 Logie, M. R. R. 776-777
 Logsdon, G. 1520
 Loh, C. S. 6317
 Loh Hang Pai 4568
 Lohaus, G. 10404
 Löhnertz, O. 3044, 10329-10330
 Lohrer, T. 7671
 Loi, H. K. 10878
 Loi, N. 4774
 Loiko, R. E. 9264, 10261
 Loiseau, J. 1389, 10508
 Loiseau, M. 6967
 Lokesha, R. 7928
 Lokeswari, T. S. 7936
 Lokhande, N. M. 8631
 Lolies, F. 8744
 Lomaniec, E. 815
 Lomas, J. 5358
 Lombaard, S. W. 3682
 Lombard, P. B. 9396
 Lombardi, P. 4897
 Long, D. G. 721
 Long, J. P. 917
 Long, L. 4472
 Long, L. M. 2033
 Long, P. G. 10273
 Longo, S. 1526, 1734-1735, 7987
 Longoni, F. 4883
 Lonsdale, J. H. 10972, 10976-10978
 Looijesteijn, F. X. C. 4068
 Loon, P. C. C. van 3341
 Looney, N. 21
 Looney, N. E. 2794, 7399, 7409
 Loong, S. G. 10980
 Lopes, J. F. 10482
 Lopes, N. F. 5936, 7817
 Lopes, P. R. 4290
 Lopes, S. J. 6746, 10370
 López, B. A. 7832
 López, E. L. 5803
 Lopez, F. 2192, 6722, 7721
 Lopez, G. 10317
 López, J. 8138
 Lopez, J. 10491
 Lopez, M. 2121
 Lopez, M. F. 2186
 López, M. V. 6017
 López, S. 503
 López, S. S. 42
 López-Andréu, F. J. 304
 López-Andreu, F. J. 7541
 López-Andréu, F. J. 10302
 López-Arriaga, O. 3665, 4609
 López-Bautista, J. 1700
 López Camelo, L. G. de 10748
 López-Cantarero, I. 8568-8569, 8638
 Lopez de Medina, F. 8097
 López-Gálvez, G. 7841, 9115
 López-Gálvez, J. 6689, 8593
 López García, J. 10949
 López-Méndez, A. 9019
 López Morales, M. A. 883
 López-Moreno, J. L. 7775
 López Mosquera, M. E. 598, 7896
 López-Rivares, E. P. 7245
 López-Rodríguez, V. 813-814, 818
 López Sánchez, J. G. 7642
 López Tamames, E. 10356
 López-Valdivia, L. M. 9464
 López Villalobos, A. 5250
 Lops, R. 1157
 Lord, E. M. 2408, 9705
 Lord, T. 8769
 Lordkaew, S. 5935
 Loreau, O. 3087, 5793
 Lorenc-Kubis, I. 397
 Lorente, F. A. 8681-8682
 Lorente, L. 7773
 Lorenz, D. H. 2094
 Lorenzi, R. 3108
 Lorenzini, G. 421, 9504
 Lorenzo, E. 1721, 8059
 Lorenzo, G. de 5947
 Lorenzoni, C. 1006
 Lorenzoni, G. G. 1020
 Loreti, F. 4830, 6614
 Loreto, F. 6609
 Lórinčz, A. 10324-10325
 Loš, J. 8228
 Losavio, N. 8098
 Løschenkohl, B. 8874
 LoSchiavo, F. 6048
 Loshchilov, N. A. 4937
 Lossow, B. 5701
 Lott, J. N. A. 1052
 Lotz, L. A. P. 499
 Lou, C. H. 1280
 Lou, D. R. 4014
 Lou, H. 3167, 6836
 Lou, H. B. 3168
 Lou, H. N. 6816
 Lou, S. M. 7355
 Lou, X. S. 3794
 Lou ChengHou 1280
 Lou DeRen 4014
 Lou HuiBao 3168
 Lou HuiNing 6816
 Lou ShiMing 7355
 Lou XinShu 3794
 Loubser, J. T. 306
 Loughheed, E. C. 546, 2223
 Loughner, D. L. 8800
 Louis, S. 5204
 Louizi, A. 8099
 Loukis, A. 8927
 Loulakakis, K. A. 4928
 Lounmire, M. 6610
 Loureiro, M. D. 1221
 Lourens, A. 6309
 Loures, E. G. 10412
 Louw, E. 4335
 Lovász, T. 9213
 Lovati, F. 4861, 4883, 4897, 9372
 Lovato, A. 1372
 Lovato, P. E. 8206
 Lovatt, C. J. 1738, 6304-6305, 6308, 9885
 Love, M. E. 2337
 Loveys, B. R. 6714, 10731
 Lovicu, G. 1730
 Lowe, B. G. 2995
 Lownds, N. K. 8621
 Loyd, M. 1580
 Lozoya Saldana, H. 726
 Lu, B. 172
 Lu, B. H. 1953
 Lu, B. Q. 10848
 Lu, B. Z. 1228
 Lu, C. G. 539
 Lu, C. M. 1776
 Lu, C. S. 7809
 Lu, C. W. 2008
 Lu, D. 1827
 Lu, D. G. 8954
 Lu, G. 4135
 Lu, G. H. 9102
 Lu, G. Z. 3188
 Lu, H. H. 7233
 Lu, H. Y. 6964
 Lu, J. 3951

- Lu, J. J. 3962
 Lu, J. L. 4545, 5669, 5987, 7197, 8977
 Lu, J. Y. 317, 8741
 Lu, L. W. 7790
 Lu, L. X. 3582, 8939
 Lu, M. L. 4494
 Lu, P. 1392, 3205
 Lu, P. Z. 1741
 Lu, S. F. 6831
 Lu, S. L. 5580
 Lu, S. Y. 10890
 Lu, S. Z. 4130, 4136
 Lu, T. S. 1597
 Lu, W. L. 2402-2403, 4244
 Lu, X. L. 4014
 Lu, Y. K. 840, 7970
 Lu, Y. X. 2868
 Lu, Z. 2435
 Lu, Z. S. 4611
 Lu, Z. X. 6615, 6812
 Lu BingHua 1953
 Lu ChaiMing 1776
 Lu ChangShen 7809
 Lu ChangWen 2008
 Lu ChunGui 539
 Lu DaGuang 8954
 Lu Di 1827
 Lu Gang 4135
 Lu GuangHan 9102
 Lu GuoZhong 3188
 Lu HouHong 7233
 Lu HsiuYing 6964
 Lu JennYenn 8741
 Lu JiaJu 3962
 Lu JiaLong 5987
 Lu Jiang 3951
 Lu JuLiang 7197
 Lu JunLiang 4545, 5669, 8977
 Lu LieWu 7790
 Lu LiouXin 8939
 Lu LiuXin 3582
 Lu PingZhong 1741
 Lu ShanFa 6831
 Lu ShanLing 5580
 Lu ShaoYun 10890
 Lu ShuZhen 4130, 4136
 Lu TingSen 1597
 Lu WenLiang 2402-2403, 4244
 Lu XiaoLong 4014
 Lu YihKuang 840, 7970
 Lu ZeSheng 4611
 Lu Zhao 2435
 Lu ZhenXiang 6615
 Lu ZiXian 6812
 Luangsualai, K. 6175
 Lubberts, J. H. 1662
 Lübeck, J. 1397
 Lubini, A. 1025
 Lübke, M. 7419
 Luby, J. J. 5708
 Luca, V. de 4456
 Lucas, A. 291
 Lucas, A. S. 6631
 Lucas, W. J. 2511
 Lucchesi, S. 7421
 Lucchi, P. 2055, 4883
 Luce, L. 5204
 Lucena, J. J. 6313, 8946
 Lucentini, L. 231
 Lucia, B. de 7025
 Lučić, P. 2028
 Łuczak, P. 9691
 Lüdders, P. 106, 6387, 6489, 6560, 6562, 7194, 7271, 7283, 7326, 8207, 8278, 8307, 9286
 Ludolph, D. 4292
 Ludwig, S. 627
 Luengo, R. F. A. 10482
 Luer, C. A. 700, 2451, 3463, 9753, 9758
 Luethy, M. H. 449
 Lugli, S. 3847
 Lugtenberg, B. J. J. 3155
 Lui, S. Y. 827
 Lui, Y. N. 1951
 Lui YanNing 1951
 Luis, J. G. 4583
 Luisa, M. 9196
 Luise, M. 7639
 Luisetti, J. 10956
 Lukasse, L. J. S. 2819
 Łukaszewska, A. J. 4284
 Lukatkin, A. S. 4146, 8208
 Lukin, V. A. 3790
 Lulakis, M. 909
 Lulakis, M. D. 9574
 Lullfitz, G. 7107
 Lumaret, R. 860
 Lumen, B. O. de 5035
 Lumsden, P. J. 3397
 Lumsden, R. D. 10528
 Lund, M. C. 4386
 Lundh, J. 9588
 Luneau, C. 8700
 Luneva, N. N. 5688
 Luning, P. A. 480
 Lunn, J. E. 4258
 Luo, A. L. 2151
 Luo, C. 4403
 Luo, C. M. 4825
 Luo, F. Y. 7197
 Luo, G. F. 7086
 Luo, G. G. 3066-3067, 3961-3962
 Luo, G. H. 1773, 10737
 Luo, H. R. 664
 Luo, J. A. 9465
 Luo, J. T. 1827
 Luo, Q. X. 4224
 Luo, Q. Y. 9465
 Luo, S. J. 7081, 7363-7364, 7366-7369
 Luo, S. M. 8044
 Luo, W. B. 4852
 Luo, W. H. 2705
 Luo, W. X. 2551
 Luo, X. S. 7197
 Luo, Y. 4196
 Luo, Y. B. 258
 Luo, Y. L. 9895
 Luo, Z. 1340
 Luo, Z. J. 3188
 Luo, Z. M. 4206
 Luo, Z. R. 6364
 Luo, Z. S. 9873
 Luo AiLing 2151
 Luo Chong 4403
 Luo ChunMei 4825
 Luo FangYong 7197
 Luo GuangHua 1773, 10737
 Luo GuiFen 7086
 Luo GuoGuang 3066-3067, 3961-3962
 Luo HuanRong 664
 Luo JiAn 9465
 Luo JinTang 1827
 Luo QingXi 4224
 Luo QinYun 9465
 Luo ShaoJun 7081, 7363-7364, 7366-7369
 Luo ShiMing 8044
 Luo WeiXiang 2551
 Luo WenHua 2705
 Luo XianShi 7197
 Luo YunBo 258
 Luo ZeMin 4206
 Luo ZhengRong 6364
 Luo ZhuShen 9873
 Luo ZiJuan 3188
 Luou, C. H. 10344
 Luou ChengHou 10344
 Lur, H. S. 6161
 Lur HuuSheng 6161
 Lurie, S. 184, 1156, 4832, 5130, 6038, 6947, 7514, 9618, 10159
 Lush, A. 5037
 Lutaladio, N. B. 1025
 Lutfun Nahar 3326
 Luther, G. C. 7711
 Luton, M. T. 9212, 9310
 Lüttge, U. 1527, 1593, 1724, 5241-5242, 6162
 Lutringer, M. 8299
 Lützow, M. 4329
 Luwe, M. 2144
 Lux, A. 5236, 6294
 Luxmei de Silva, M. S. D. 9091
 Luyindula, N. 5473
 Luzzati, A. 224
 Lyalin, O. O. 3184
 Lyanguzova, I. V. 6663
 Lyannaz, J. P. 1232, 1775, 1821, 1830, 4493
 Lybecker, D. W. 5819
 Lydon, J. 8922
 Lynch, D. V. 5923
 Lynch, J. 5938, 7745
 Lynch, J. P. 6120
 Lyndon, R. F. 10460
 Lyngdoh, G. B. 3588, 4506
 Lyngstad, L. 166
 Lynn, C. D. 3999
 Lyons, R. E. 9683
 Lyrene, P. M. 1997-1998, 6996-6997
 Łys, J. 3854
 Lyutova, M. I. 9518
 Ma, A. J. 6900
 Ma, A. N. 8155
 Ma, B. L. 2525
 Ma, C. P. 3136
 Ma, D. H. 1348, 3183
 Ma, D. Q. 2845
 Ma, F. W. 155, 10253
 Ma, G. Y. 4450
 Ma, H. L. 2548, 2550
 Ma, H. P. 2911
 Ma, H. X. 3936
 Ma, J. L. 4120
 Ma, K. 2944, 3631, 3828, 3837, 10061
 Ma, K. Y. 3892
 Ma, L. J. 8473
 Ma, L. P. 9511
 Ma, S. T. 2551
 Ma, W. L. 2758
 Ma, X. 3821
 Ma, Y. H. 6461
 Ma, Y. S. 1184
 Ma AiJun 6900
 Ma BaiLin 2525
 Ma ChangPeng 3136
 Ma DeHua 3183
 Ma DeQin 2845
 Ma FengWang 155, 10253
 Ma GiYuan 4450
 Ma HongXiang 3936
 Ma HuanPu 2911
 Ma HuiLing 2548, 2550
 Ma JunLian 4120
 Ma Kai 2944, 3631, 3828, 3837, 10061
 Ma KeYuan 3892
 Ma LiPing 9511
 Ma SongTao 2551
 Ma WanLi 2758
 Ma Xuan 3821
 Ma YongHuan 6461
 Maas, B. 3627
 Maas, F. M. 2235
 Maas, J. L. 1203
 Maas, R. van der 1082-1083, 4773, 6552, 10122
 Maas-Kantel, K. 3295
 Maass, U. 5875
 Maatar, A. 1492
 Mabeau, S. 1695, 5356
 Mabila, M. E. 10973
 Mabon, F. 1764
 Mabonlala, A. 10904
 Maboood, F. 684-685
 Mabry, T. J. 734, 8896
 McAlister, B. G. 1706, 7026
 McAllister, H. 7080
 McAneney, K. J. 5391
 McArtney, S. J. 2972
 Macauley, B. J. 1500
 McBride, J. M. 5085
 McCall, D. 5858
 McCall, I. F. 1626
 McCamant, V. S. 9266
 McCann, M. C. 3423
 Maccaroni, E. 2626
 McCartan, S. A. 4460
 McCarthy, M. J. 1986
 McCartney, E. P. 4033
 McCartney, H. A. 2443
 McCarty, L. B. 2422
 McCaskill, D. 754
 McCavish, W. J. 2471
 McChesney, J. D. 9708
 McClain, W. 9806
 McClelland, M. 8565
 McClure, M. S. 7951
 McClure, S. 2620
 McCollum, T. G. 7830
 McComb, J. A. 4372, 7107
 McConchie, C. A. 857, 4541, 8980
 McConchie, R. 4427, 9709
 McConnaughay, K. D. M. 5882
 McCormick, S. J. 3223
 McCoy, C. W. 8073
 McCubbin, A. 7869
 McCue, J. J. 7466
 McCullough, M. D. 1414
 McDonald, E. P. 7069
 Macdonald, H. M. 6581
 McDonald, J. E. 3924
 McDonald, M. 5001
 McDonald, M. B., Jr. 5214, 7908
 MacDonald, O. C. 3378
 MacDonald, P. 3466
 MacDonald, R. 5961, 6854
 MacDonald, R. A. 1972, 6597, 9169, 9173, 9265
 McDonald, R. E. 4530, 5400, 6340, 7830, 10903
 McDonough, L. M. 1097
 McDowell, I. 4647-4648
 Macedo, A. F. de 5488
 Macedo, S. G. 759, 7734, 7792
 Macet, K. 2966, 3852
 McEwen, B. 5939
 McEwen, C. 8180
 McFadden-Smith, W. 2982
 McFadyen, L. M. 6625
 McFeeters, R. F. 4805
 MacFie, H. J. 7512
 McGarry, A. 3334
 McGee, P. A. 702, 7066, 10696
 McGiffen, M. E., Jr. 1031
 McGimpsey, J. A. 9833, 10766
 McGlasson, B. W. 10024
 McGlasson, W. B. 1977, 3803, 8936
 McGlew, S. P. 8411
 McGough, H. N. 998
 McGourty, G. 9388
 McGready, P. 3528
 McGuire, D. 4712
 Machado, C. 2818
 Machado, W. 10421
 Macheix, J. J. 1239, 2849
 Macherel, D. 8614
 Machnik, B. 8259
 Machs, E. M. 1050
 Macias, F. 598
 Macias, G. 6390
 Maciell, N. 10889
 McIlveen, W. D. 3170
 McInnes, K. J. 8464
 McInnis, T. M., Jr. 705
 MacIntosh, D. F. 7152
 McIntosh, T. 10499
 McIntyre, D. D. 7835
 McIntyre, G. 9884
 MacKay, B. R. 10635
 Mackay, W. A. 616, 5187
 McKee, L. J. 6369
 McKegney, G. 2237
 McKendrick, S. L. 1605
 McKenna, B. 10047
 McKenna, C. E. 9336
 McKennan, G. T. 6226
 McKenney, C. B. 9720
 McKenry, M. 9323
 McKenry, M. V. 9167, 9910
 MacKenzie, A. J. 1529
 McKenzie, B. 2036, 9332
 McKenzie, C. B. 10953, 10955
 McKenzie, D. 9801
 McKenzie, R. L. 9774
 MacKenzie, S. L. 4115
 McKersie, B. D. 1305
 Mackey, A. P. 8947
 MacKintosh, C. 3117
 McLaren, G. F. 8323, 8326, 9258, 10175
 McLauchlan, R. L. 10865

- McLaughlin, J. C. 1368
 McLaughlin, M. J. 960, 6774, 8349
 McLaughlin, S. P. 10810-10811
 McLaurin, W. J. 1409
 McLean, R. M. 94
 McLellan, T. 3424
 McLeod, D. G. R. 8492
 McLeod, D. J. 4779
 McLeod, J. K. 7191
 McLeod, P. J. 3668
 MacLeod, R. 438
 McLewin, W. 614, 6113
 McMahon, D. J. 9867
 McMahon, K. 2791
 McMahon, M. J. 3394
 McMichael, R. W., Jr. 3115-3116, 4977, 8520
 McNaughton, K. G. 4779
 McNeal, B. L. 8693
 MacNeil, C. R. 3095
 McNeil, D. L. 101
 McNeill, J. 3703
 McNeish, C. 2298
 McNiel, R. E. 7071
 McPherson, H. G. 216-217
 McQueen-Mason, S. J. 2210
 McQuilken, M. P. 3479, 5846
 MacRae, E. 2998
 MacRae, E. A. 4792
 McRae, E. A. 7894
 Macri, F. 2249, 9536
 McVetty, P. B. E. 4115
 Madalageri, B. B. 8718-8719
 Madalgeri, B. B. 3083
 Madalgeri, M. B. 10970
 Madan, S. P. S. 5785
 Madan, V. K. 6463
 Madan Lal 9029
 Madanlar, N. 2307
 Madappa, M. A. 7300
 Madden, L. V. 3788
 Maddison, A. C. 6390
 Maddocks, D. 457
 Maddox, V. L. 9721
 Made, J. M. 5814
 Madeira, D. 7601
 Mademba-Sy, F. 4493, 4634
 Mader, P. 8219
 Madhavan, S. 6292
 Madhavi, D. L. 3930, 9823
 Madhusoodanan, K. J. 2520, 6247
 Madhusudhanan, K. P. 8774
 Madisa, M. E. 5818
 Madiwalar, S. L. 1840
 Madiwalar, S. L. K. 1840
 Madjar, S. 9964
 Madore, M. A. 6248
 Madramootoo, C. A. 7800
 Madrid, J. 7866
 Madrid, R. 4522
 Madrid de Cañizalez, C. 1480
 Madriñán, S. 2492
 Madsen, J. O. 2365
 Madueño, C. 8984-8985
 Madulid, D. 1629
 Madumati Purohit 7169
 Maeda, E. 6103
 Maeda, H. 3093
 Maeda, M. 2409
 Maeda, T. 6800, 9670
 Maeda, Y. 672, 7914
 Maengwe, E. O. 9844
 Maeshima, M. 1527, 5972
 Maestri, M. 4605, 6398, 7304
 Maffei, G. 6525
 Maffei, M. 3523
 Maftuchah 7136
 Magalageri, B. B. 8720
 Magan, N. 3346
 Magarey, P. 7
 Magarey, R. D. 7626
 Magdum, M. B. 1789
 Magee, J. 4879
 Magee, J. B. 6725, 8413, 9352
 Maggio, A. 4235
 Maghembe, J. A. 4654, 10054
 Magherini, R. 10095
 Magliulo, V. 3940
 Magnani, F. 9268
 Magnani, G. 4364, 6915
 Magnanini, E. 6702
 Magnaval, C. 1798
 Magnaye, L. V. 884, 9937
 Magnifico, V. 5859
 Magnin, N. 6862
 Magnus, V. 1401
 Magyar, L. 9182
 Mahabir Singh 2671, 2715
 Mahajan, B. C. V. 1757
 Mahajan, B. V. C. 10158
 Mahajan, R. K. 10850
 Mahal, S. S. 10361
 Mahanoglu, G. 9259-9260
 Mahanta, I. C. 4266
 Mahanta, P. 663, 10644, 11003
 Mahanthesh, B. 1793
 Mahapatra, S. 1705
 Maharaj, V. 4433
 Maharaj Singh 5966
 Maharana, T. 1824, 3166, 9083
 Mahato, S. B. 5342
 Mahbuba Khanam 5321
 Mahdar, P. 6988
 Maher, M. J. 3174
 Maheshwari, M. L. 10797
 Maheshwari, S. K. 5310, 10759, 10785
 Maheswari, C. U. 579
 Mahey, R. K. 8903
 Mahimairaja, S. 380
 Mahindapala, R. 896
 Mahjoub, A. 852
 Mahlberg, P. G. 7159
 Mahmood, I. 1454
 Mahmood, T. 3678
 Mahmood Akram 10799
 Mahmood, A. E. 394, 5881
 Mahmoud, E. E. Y. 9921
 Mahmoud, M. B. 6332
 Mahmoud, S. M. 7750
 Mahmout, Y. 8034
 Mahmud, A. W. 939
 Mahorkar, V. K. 7906, 10380, 10433
 Mahunu, A. 704
 Maib, R. 4765
 Maier, H. G. 2156
 Maier, N. A. 737, 741, 8869-8870
 Maigre, D. 267
 Maikhuri, R. K. 1917
 Maindonald, J. H. 2584
 Maini, S. 3242
 Maini, S. B. 8086
 Mainland, C. M. 2048
 Mainuddin Ahmed 3690
 Maisonneuve, J. C. 911, 4231
 Maisov, I. A. 1905, 6509, 6741
 Maitani, T. 8002
 Maiti, A. 7316
 Maiti, R. 4257
 Maiti, R. K. 333, 744, 757
 Maiti, S. 9866
 Maity, I. 10681
 Majer, J. D. 4593
 Majid, F. Z. 3327
 Majumdar, T. K. 1982
 Majumder, A. L. 5354
 Majumder, P. K. 10961-10962
 Majumder, P. L. 701, 7931, 8834
 Makarova, È. V. 8261
 Makary, B. S. 3092
 Makhlof, J. 4119
 Maki, T. 6322, 7693
 Makimoto, Y. 7865
 Mäkinen-Kiljunen, S. 7052
 Makita, K. 374-375
 Makkar, G. S. 578
 Makmom, A. A. 7375
 Makne, V. G. 10003
 Makowski, R. M. D. 2063
 Maksimenko, N. B. 8009
 Maksimova, T. A. 9350
 Maksoud, M. A. 6425, 6429, 6432, 8152
 Maksymiec, W. 2232
 Makuch, M. 5851
 Makumbi, D. 3640
 Mal, B. 7182
 Mal, K. 6902
 Malach, Y. de 3266
 Malaker, P. K. 6003
 Malan, A. 8034
 Malarvizhi, K. 4045
 Malavia, D. D. 1275
 Malavolta, C. 3749
 Malavolta, V. A., Jr. 3402
 Malawi, Bvumbwe Agricultural Research Station 10059
 Malaysia, Guthrie Research Chemara 5549
 Malcolm, C. P. 3909
 Malek, L. 10499
 Malemnganba, H. 7930, 10712
 Malenga, N. E. A. 3686
 Malepszy, S. 1354, 2200, 2215, 9503
 Mallerba, M. 5032
 Maleszewski, S. 5937
 Malet, J. C. 911, 6820
 Maletta, M. H. 1127-1128
 Malézieux, S. 4232
 Malfa, G. la 4211
 Malhi, C. S. 3061
 Malhó, R. 3403
 Malhotra, R. 1087
 Malhotra, S. D. 10605
 Mali, C. V. 3977
 Mali, Unité de Coordination Technique Régionale en Protection des Végétaux 19
 Malik, C. P. 2413-2414, 6886, 6893
 Malik, I. A. 1477
 Malik, K. A. 4207
 Malik, R. S. 156, 1766, 9186, 9585
 Malik, S. K. 2668, 7785
 Malik, Y. S. 510, 2268, 7840, 8604, 9554, 10521
 Malinconico, P. 1152
 Malinowska, H. 3502
 Malinowski, T. 201
 Malkanthi, D. R. R. 2279
 Mallanagouda, B. 3083, 5074
 Mallapur, C. P. 1337
 Mallesha, B. C. 9991
 Mallik, S. C. 8551, 8692
 Mallikarjunan, P. 2723
 Malodobry, M. 2030
 Malone, M. 4242, 5111
 Malone, M. T. 9172
 Malorgio, F. 4364, 5566, 8790
 Malossini, C. 7530
 Maloupa, E. 2296, 8186, 8753, 8755, 8757, 10622
 Maloupa, E. M. 8751
 Maloy, O. 7446
 Malpezzi, G. 3863
 Malter, A. J. 991
 Maltoni, R. 3863
 Maluf, W. R. 7771
 Mamumphy, C. 1736
 Mamoun, M. 7856
 Mamouni, A. 3777
 Man Singh 3524
 Manabe, T. 374-375
 Manago, N. 2949
 Manandhar, R. 2117
 Mancini, G. 9163
 Mancini, L. 905
 Mancini, P. 8490
 Mancuso, S. 3617, 3625
 Mandal, A. 2670
 Mandal, D. 9071
 Mandal, S. 7316
 Mander, L. N. 5982, 7496, 7719, 7917, 8335
 Manderscheid, R. 2225
 Mandhare, V. K. 9444
 Mandon, N. 4027
 Mandradia, R. K. 10447
 Mandre, M. 3197, 9522
 Manes, F. 3196
 Mañes, J. 2612, 5388
 Maness, N. 9958
 Maness, N. O. 5670, 6000, 6636
 Manetas, Y. 5289
 Manez, J. C. 10926
 Manfredi, V. R. 740
 Manga, A. 27
 Mangan, R. L. 4528
 Manganaris, A. G. 5654
 Mangold, B. 1593
 Mani, A. 8647
 Mani, D. 4941
 Mani, E. 1923, 1965
 Mani, J. 9075
 Mani, M. 2609, 2722, 3674
 Mani, P. K. 6076
 Manian, K. 6524, 6743
 Manica, I. 1819, 5502, 8145
 Manilal, K. S. 7927
 Manino, A. 8634
 Manios, V. I. 8664
 Manivanh, V. 876
 Manivannan, K. 9943
 Manivel, L. 2765, 8166
 Manjeet Singh 2958
 Mankin, K. R. 3725
 Manktelow, D. W. 9296
 Manley, R. C. 9485
 Mann, J. A. 2443
 Mann, S. S. 5675
 Männel, R. 2023
 Mannheim, C. H. 8968
 Manning, T. O. 46
 Mannini, P. 244, 5096
 Mano, J. 390
 Manoharan, M. 3641
 Manolakis, E. 1187, 2991, 7559
 Manolopoulou, H. 140
 Manolopoulou-Lambrinou, M. 841
 Mans, C. C. 4480, 4484-4485
 Mans, T. 808
 Manseka, S. V. 150-151
 Mansell, M. W. 805, 10963
 Manson, P. J. 219, 2990
 Mansoori, B. 9966
 Mansour, N. S. 1435
 Manterola, H. 2119
 Manteuffel, R. 2309
 Manthey, J. A. 1031, 6494, 6754, 7190
 Mantia, T. la 10903
 Mantilla, J. L. G. 1221, 7629
 Mantinger, H. 4756, 4785, 9178
 Mantovani-Alvarenga, E. 6843
 Manu, V. T. 3636
 Manuel, R. 10714
 Manuelyan, Kh. 3232
 Manukian, A. 7691-7692
 Manzali, D. 1211
 Manzano, J. 7339, 10393
 Manzano Méndez, J. E. 9982
 Manzoni, M. 576
 Mao, C. L. 9375
 Mao, D. J. 7117
 Mao, G. Z. 7809
 Mao, X. Q. 10467
 Mao, Y. M. 3692
 Mao CaiLiang 9375
 Mao DunJun 7117
 Mao GuoZhang 7809
 Mao XianQiang 10467
 Mao YongMin 3692
 Mapa, R. B. 2689
 Maqbool, M. A. 2306, 7766
 Maqsood Ahmed 2157
 Maquieira, A. 7203
 Mara, D. D. 4989
 Marais, E. M. 5174
 Marais, J. 6720
 Marais, J. J. 1755
 Marais, L. J. 8965
 Marais, M. F. 6655
 Marais, W. 4453
 Maramba, P. 5814
 Marangoni, A. G. 2317, 3731, 5131, 6518
 Marangoni, B. 2953, 2983, 2993, 3840, 3862, 4841, 5698, 7444
 Marani, F. 7656
 Maranto, J. 3901
 Marasi, V. 486
 Marattukalam, J. G. 6444
 Maraviya, R. B. 1275
 Marcellis, L. F. M. 396, 6903

- Marcellis-van Acker, C. A. M. 1634
 Marcelle, R. D. 149, 2922
 Marchaim, U. 903
 Marchant-Smith, D. L. le 3504
 Marche, C. 1389
 Marchesi, E. 607
 Marchesini, A. 4150, 4282
 Marchetti, L. 9701
 Marchi, A. 1165
 Marciniak, J. 2214
 Marciniak, K. 660
 Marco, L. di 6637
 Marco, S. di 9413
 Marcondes, D. A. S. 9030
 Marcotrigiano, M. 8411
 Marcozzi, P. 1444, 4212
 Marcum, K. B. 666, 4353
 Marder, R. C. 870
 Mardiana, N. 5469
 Maréchal, E. 2150
 Mareczek, A. 608-609, 1317, 2170
 Maree, P. C. J. 9963
 Marfá, O. 3236
 Marfá, O. 6931
 Marfá, O. 8210
 Margani, I. 3196
 Margina, A. 3527
 Margosan, D. A. 2623
 Margreth, A. 4975
 Mariani, F. 4282
 Mariani, P. 4975
 Mariau, D. 4597, 7290
 Mariaul, E. 5473
 Mariaux, J. B. 6162
 Marié, J. 10352
 Marigo, G. 1527, 8912
 Marimuthu, R. 7297
 Marimuthu, S. 2765, 8166
 Marimuthu, T. 6982, 10593
 Marín, J. G. 8081, 10862
 Marin, L. 4548
 Marin, M. 6424, 6426-6427
 Marín, M. A. 878
 Marin, S. L. G. 8156
 Marinansky, R. 9058
 Marinelli, F. 7837
 Marini, M. C. 1148
 Marini, R. 9188
 Marini, R. P. 1148, 5598, 6534
 Marino, A. 4205, 6004
 Marino, G. 3851
 Marinova, N. 5683, 10249
 Marion, C. 6060
 Mariotti, D. 2224
 Mariussen, N. 9697, 9787
 Maritano, S. 4150
 Mark, K. von der 4362
 Markarov, A. M. 4452
 Markham, B. L. 1171
 Markham, K. R. 8773
 Markham, P. G. 5006
 Markhart, A. H., III 4407
 Markiewicz, K. 1688
 Marković, Z. 7842
 Markovskaya, E. F. 7424, 9516
 Markowski, A. 6850
 Marks, M. J. 2825, 2881
 Márkus, F. 10531
 Marler, T. E. 6372, 6437, 7349
 Marletto, F. 8634
 Marois, J. 9395
 Maroto, J. V. 503
 Marousky, F. J. 6996
 Marquard, R. D. 1928
 Marquès, L. 2849
 Marques, L. F. 759
 Marquis-Verjux, N. 1671
 Marr, C. W. 6414
 Marra, F. P. 6637
 Marra, M. 6766
 Marrero, S. 4994
 Marrero Domínguez, A. 9007
 Marrett-Fossen, M. 84
 Marris, G. C. 5107
 Marroquin, E. 197
 Marschner, H. 2231, 5042, 6847, 9367
 Marshall, F. M. 10039
 Marshall, J. K. 1642, 2494
 Marsico, G. 7564
 Marsilio, V. 10886
 Mart, C. 2660
 Márta-Riffer, A. 7918
 Martelli, S. 257, 6638
 Martens, D. C. 1324, 5863, 6790, 7708
 Marth, P. 8515
 Martí, L. 4223
 Martignon, G. 3666
 Martín, A. 1644
 Martin, A. 10802
 Martin, B. 6000
 Martin, C. 7551
 Martin, C. A. 2613, 3467, 6227, 9591
 Martin, C. E. 7923
 Martín, C. san 2331
 Martin, F. G. 6997
 Martin, G. C. 5431
 Martin, G. J. 1764, 4001-4002
 Martin, H. 6049
 Martin, J. B. 4391
 Martin, J. R. 5480
 Martin, K. 2463
 Martin, L. W. 1204
 Martin, M. N. 3304, 5122
 Martin, N. B. 8135
 Martin, P. 9131
 Martin, P. J. 8131
 Martin, R. 6282
 Martin, R. 5304
 Martin, S. 423
 Martin, W. 3114
 Martín-Cabrejas, M. A. 7541
 Martin-Tanguy, J. 254
 Martinelli, A. 5714-5716
 Martinelli, N. 10886
 Martinetti, L. 8533
 Martínez, A. 261, 303, 4003
 Martínez, C. 4190
 Martínez, E. 10063
 Martínez, G. 7467
 Martínez, G. A. 3948
 Martínez, G. C. 4508
 Martínez, G. R. 5649
 Martínez, H. E. P. 7805, 8532
 Martínez, J. G. 42
 Martínez, J. P. 10492
 Martínez, L. 1301
 Martínez, M. 3656
 Martínez, M. C. 1221, 7627, 7629
 Martínez, P. F. 8752
 Martínez, R. 1857, 2236
 Martínez, T. 7346
 Martínez, V. 7688
 Martínez Antonio, A. 10767
 Martínez-Barajas, E. 9611
 Martínez-Cocera, C. 2139
 Martínez Cortizas, A. 7896
 Martínez Cruz, M. 10767
 Martínez de Velasco, D. 5640
 Martínez Farré, X. 3399
 Martínez Fonseca, J. L. 9871
 Martínez Garza, A. 9877
 Martínez-Guijarro, J. 4166
 Martínez-Laborde, J. B. 1493
 Martínez M., M. 3006
 Martínez-Madrid, M. C. 2282
 Martínez-Pastur, G. 760
 Martínez-Sánchez, F. 5996, 8626
 Martínez-Téllez, M. A. 7222
 Martini, A. 2131
 Martinková, H. 10981
 Martino, A. de 1994
 Martino, I. 1929
 Martins, A. 7601
 Martins, D. dos S. 8156
 Martins, F. P. 10320
 Martins, G. 877, 2295
 Martins, S. R. 5044, 9523
 Martins-Loução, M. A. 1711, 3581, 10821
 Marty, F. 5972
 Martyn, G. M. 8613
 Martyniak-Przybyszewska, B. 6798
 Marumoto, S. 6731
 Maruyama, I. 763
 Marzadori, C. 2953
 Marziah, M. 2728, 6433
 Marzouk, B. 10887
 Marzouk, H. 9154
 Masaba, D. M. 3661, 10927
 Masada, M. 3118
 Masaki, N. 3808
 Masalkar, S. D. 7329-7330, 8488, 9971
 Masalles, R. M. 2850
 Masarovičová, E. 1099, 2994, 6294
 Mascarello, C. 4361
 Mascarini, L. 3724
 Mascar, P. 9386
 Maselli, F. 7595
 Mashingaidze, A. 952
 Masia, A. 179
 Masiunas, J. B. 500, 8496
 Maslo, A. V. 4937
 Masojídek, J. 8610
 Mason, J. L. 8297
 Massacci, A. 91
 Massai, R. 3846, 4830, 6614, 6643, 9337
 Massantini, R. 231, 540, 6776, 8400
 Massel, M. O. 1488
 Masseron, A. 2857, 7456-7457
 Massiani, L. 1695
 Massie, D. R. 6592, 6646
 Massiot, P. 135
 Massman, W. J. 1230
 Mastro, M. A. 6778
 Mastrocola, D. 9160
 Mastrokostas, M. 253
 Mastroilli, M. 8098
 Masuda, H. 6043, 9619
 Masuda, M. 6420
 Masuda, T. 4148, 4151, 5028, 5916, 9804
 Masuda, Y. 7714, 8557
 Masuhara, G. 702, 8833
 Masui, S. 3597
 Máta, K. 8885
 Mataix, J. 493, 511, 8628
 Matas, J. 9807
 Mate, C. 541
 Mateke, S. M. 10054
 Mateos, L. 5428
 Mathad, J. C. 9477
 Mathai, C. K. 3679
 Máthé, Á. 7550, 9248
 Mather, D. E. 7844
 Mather, J. C. 6137
 Mathesius, U. 6165
 Mathew, B. 614, 1560, 2400, 3437, 5532, 6113, 8794, 9712, 10639
 Mathew, J. 6389, 10920
 Mathew, K. L. 9107
 Mathew, M. 942, 9075
 Mathew, P. G. 9820
 Mathew, S. K. 9558
 Mathew, T. 5302
 Mathews, H. 2721
 Mathey, C. A. 3969
 Mathiasson, L. 9588
 Mathieu, C. 4835
 Mathieu, V. 7456
 Mathis, P. 5543-5544, 6482
 Mathooko, F. M. 3730, 4947
 Mathur, N. 781, 3209, 3691, 5517-5519, 11017
 Mathur, R. 4200
 Matitschka, G. 4073
 Matlawska, I. 875
 Matoh, T. 6804
 Matschke, J. 3375, 8756, 8850
 Matsubara, Y. 4533, 5197, 10512
 Matsubara, Y. I. 3101, 5062, 6002, 10119
 Matsuda, A. 4440
 Matsuda, H. 3549
 Matsuda, T. 2939, 2939
 Matsuda, Y. 3944
 Matsueda, R. 6289
 Matsui, H. 605, 5743, 8335, 8482
 Matsui, K. 411
 Matsui, M. 526, 1363, 4124, 5010
 Matsui, N. 38, 9761
 Matsui, S. 3093, 3460
 Matsui, T. 3269, 7825-7826, 9612, 9614
 Matsumoto, A. 1650, 4974
 Matsumoto, I. 5377
 Matsumoto, K. 3738
 Matsumoto, M. 10396
 Matsumoto, R. 4526, 6336, 9872, 10861
 Matsumoto, T. 4436, 6252
 Matsumoto, T. K. 7870-7871
 Matsumura, T. 3944
 Matsunaga, M. 7958
 Matsuno, Y. 7590
 Matsuo, K. 4646, 7362
 Matsuo, T. 5439
 Matsuoka, I. 9918
 Matsuoka, T. 8612
 Matsushita, K. 2279
 Matsushita, Y. 4513
 Matsuura, S. 2221
 Matsuzaki, T. 6104
 Matsuzoe, N. 5092, 8655
 Matta, F. B. 63, 197, 200, 4342, 6466, 7543
 Mattas, K. 494
 Matthaiou, A. 274
 Mattheck, C. 2458
 Matthee, G. W. 10215
 Mattheis, J. F. 7505
 Mattheou, A. 264, 2088, 9401
 Matthews, H. R. 3117
 Matthews, M. A. 7630, 9381
 Matthews, R. F. 5409
 Matthews, R. G. 8914
 Matthews, V. 1553, 3438
 Matthews, V. A. 3699
 Matthews, W. C. 5780
 Mattiazzo, G. 6882
 Mattivi, F. 6720
 Mattoo, A. K. 6944-6945, 8610
 Matulewicz, M. C. 8934
 Matus, Z. 8636
 Matuzaki, K. 4092
 Mate, C. 541
 Mateke, S. M. 10054
 Mateos, L. 5428
 Mathad, J. C. 9477
 Mathai, C. K. 3679
 Máthé, Á. 7550, 9248
 Mather, D. E. 7844
 Mather, J. C. 6137
 Mathesius, U. 6165
 Mathew, B. 614, 1560, 2400, 3437, 5532, 6113, 8794, 9712, 10639
 Mathew, J. 6389, 10920
 Mathew, K. L. 9107
 Mathew, M. 942, 9075
 Mathew, P. G. 9820
 Mathew, S. K. 9558
 Mathew, T. 5302
 Mathews, H. 2721
 Mathey, C. A. 3969
 Mathiasson, L. 9588
 Mathieu, C. 4835
 Mathieu, V. 7456
 Mathis, P. 5543-5544, 6482
 Mathooko, F. M. 3730, 4947
 Mathur, N. 781, 3209, 3691, 5517-5519, 11017
 Mathur, R. 4200
 Matitschka, G. 4073
 Matlawska, I. 875
 Matoh, T. 6804
 Matschke, J. 3375, 8756, 8850
 Matsubara, Y. 4533, 5197, 10512
 Matsubara, Y. I. 3101, 5062, 6002, 10119
 Matsuda, A. 4440
 Matsuda, H. 3549
 Matsuda, T. 2939, 2939
 Matsuda, Y. 3944
 Matsueda, R. 6289
 Matsui, H. 605, 5743, 8335, 8482
 Matsui, K. 411
 Matsui, M. 526, 1363, 4124, 5010
 Matsui, N. 38, 9761
 Matsui, S. 3093, 3460
 Matsui, T. 3269, 7825-7826, 9612, 9614
 Matsumoto, A. 1650, 4974
 Matsumoto, I. 5377
 Matsumoto, K. 3738
 Matsumoto, M. 10396
 Matsumoto, R. 4526, 6336, 9872, 10861
 Matsumoto, T. 4436, 6252
 Matsumoto, T. K. 7870-7871
 Matsumura, T. 3944
 Matsunaga, M. 7958
 Matsuno, Y. 7590
 Matsuo, K. 4646, 7362
 Matsuo, T. 5439
 Matsuoka, I. 9918
 Matsuoka, T. 8612
 Matsushita, K. 2279
 Matsushita, Y. 4513
 Matsuura, S. 2221
 Matsuzaki, T. 6104
 Matsuzoe, N. 5092, 8655
 Matta, F. B. 63, 197, 200, 4342, 6466, 7543
 Mattas, K. 494
 Matthaiou, A. 274
 Mattheck, C. 2458
 Matthee, G. W. 10215
 Mattheis, J. F. 7505
 Mattheou, A. 264, 2088, 9401
 Matthews, H. R. 3117
 Matthews, M. A. 7630, 9381
 Matthews, R. F. 5409
 Matthews, R. G. 8914
 Matthews, V. 1553, 3438
 Matthews, V. A. 3699
 Matthews, W. C. 5780
 Mattiazzo, G. 6882
 Mattivi, F. 6720
 Mattoo, A. K. 6944-6945, 8610
 Matulewicz, M. C. 8934
 Matus, Z. 8636
 Matuzaki, K. 4092
 Mate, C. 541
 Mateke, S. M. 10054
 Mateos, L. 5428
 Mathad, J. C. 9477
 Mathai, C. K. 3679
 Máthé, Á. 7550, 9248
 Mather, D. E. 7844
 Mather, J. C. 6137
 Mathesius, U. 6165
 Mathew, B. 614, 1560, 2400, 3437, 5532, 6113, 8794, 9712, 10639
 Mathew, J. 6389, 10920
 Mathew, K. L. 9107
 Mathew, M. 942, 9075
 Mathew, P. G. 9820
 Mathew, S. K. 9558
 Mathew, T. 5302
 Mathews, H. 2721
 Mathey, C. A. 3969
 Mathiasson, L. 9588
 Mathieu, C. 4835
 Mathieu, V. 7456
 Mathis, P. 5543-5544, 6482
 Mathooko, F. M. 3730, 4947
 Mathur, N. 781, 3209, 3691, 5517-5519, 11017
 Mathur, R. 4200
 Matitschka, G. 4073
 Matlawska, I. 875
 Matoh, T. 6804
 Matschke, J. 3375, 8756, 8850
 Matsubara, Y. 4533, 5197, 10512
 Matsubara, Y. I. 3101, 5062, 6002, 10119
 Matsuda, A. 4440
 Matsuda, H. 3549
 Matsuda, T. 2939, 2939
 Matsuda, Y. 3944
 Matsueda, R. 6289
 Matsui, H. 605, 5743, 8335, 8482
 Matsui, K. 411
 Matsui, M. 526, 1363, 4124, 5010
 Matsui, N. 38, 9761
 Matsui, S. 3093, 3460
 Matsui, T. 3269, 7825-7826, 9612, 9614
 Matsumoto, A. 1650, 4974
 Matsumoto, I. 5377
 Matsumoto, K. 3738
 Matsumoto, M. 10396
 Matsumoto, R. 4526, 6336, 9872, 10861
 Matsumoto, T. 4436, 6252
 Matsumoto, T. K. 7870-7871
 Matsumura, T. 3944
 Matsunaga, M. 7958
 Matsuno, Y. 7590
 Matsuo, K. 4646, 7362
 Matsuo, T. 5439
 Matsuoka, I. 9918
 Matsuoka, T. 8612
 Matsushita, K. 2279
 Matsushita, Y. 4513
 Matsuura, S. 2221
 Matsuzaki, T. 6104
 Matsuzoe, N. 5092, 8655
 Matta, F. B. 63, 197, 200, 4342, 6466, 7543
 Mattas, K. 494
 Matthaiou, A. 274
 Mattheck, C. 2458
 Matthee, G. W. 10215
 Mattheis, J. F. 7505
 Mattheou, A. 264, 2088, 9401
 Matthews, H. R. 3117
 Matthews, M. A. 7630, 9381
 Matthews, R. F. 5409
 Matthews, R. G. 8914
 Matthews, V. 1553, 3438
 Matthews, V. A. 3699
 Matthews, W. C. 5780
 Mattiazzo, G. 6882
 Mattivi, F. 6720
 Mattoo, A. K. 6944-6945, 8610
 Matulewicz, M. C. 8934
 Matus, Z. 8636
 Matuzaki, K. 4092
 Mate, C. 541
 Mateke, S. M. 10054
 Mateos, L. 5428
 Mathad, J. C. 9477
 Mathai, C. K. 3679
 Máthé, Á. 7550, 9248
 Mather, D. E. 7844
 Mather, J. C. 6137
 Mathesius, U. 6165
 Mathew, B. 614, 1560, 2400, 3437, 5532, 6113, 8794, 9712, 10639
 Mathew, J. 6389, 10920
 Mathew, K. L. 9107
 Mathew, M. 942, 9075
 Mathew, P. G. 9820
 Mathew, S. K. 9558
 Mathew, T. 5302
 Mathews, H. 2721
 Mathey, C. A. 3969
 Mathiasson, L. 9588
 Mathieu, C. 4835
 Mathieu, V. 7456
 Mathis, P. 5543-5544, 6482
 Mathooko, F. M. 3730, 4947
 Mathur, N. 781, 3209, 3691, 5517-5519, 11017
 Mathur, R. 4200
 Matitschka, G. 4073
 Matlawska, I. 875
 Matoh, T. 6804
 Matschke, J. 3375, 8756, 8850
 Matsubara, Y. 4533, 5197, 10512
 Matsubara, Y. I. 3101, 5062, 6002, 10119
 Matsuda, A. 4440
 Matsuda, H. 3549
 Matsuda, T. 2939, 2939
 Matsuda, Y. 3944
 Matsueda, R. 6289
 Matsui, H. 605, 5743, 8335, 8482
 Matsui, K. 411
 Matsui, M. 526, 1363, 4124, 5010
 Matsui, N. 38, 9761
 Matsui, S. 3093, 3460
 Matsui, T. 3269, 7825-7826, 9612, 9614
 Matsumoto, A. 1650, 4974
 Matsumoto, I. 5377
 Matsumoto, K. 3738
 Matsumoto, M. 10396
 Matsumoto, R. 4526, 6336, 9872, 10861
 Matsumoto, T. 4436, 6252
 Matsumoto, T. K. 7870-7871
 Matsumura, T. 3944
 Matsunaga, M. 7958
 Matsuno, Y. 7590
 Matsuo, K. 4646, 7362
 Matsuo, T. 5439
 Matsuoka, I. 9918
 Matsuoka, T. 8612
 Matsushita, K. 2279
 Matsushita, Y. 4513
 Matsuura, S. 2221
 Matsuzaki, T. 6104
 Matsuzoe, N. 5092, 8655
 Matta, F. B. 63, 197, 200, 4342, 6466, 7543
 Mattas, K. 494
 Matthaiou, A. 274
 Mattheck, C. 2458
 Matthee, G. W. 10215
 Mattheis, J. F. 7505
 Mattheou, A. 264, 2088, 9401
 Matthews, H. R. 3117
 Matthews, M. A. 7630, 9381
 Matthews, R. F. 5409
 Matthews, R. G. 8914
 Matthews, V. 1553, 3438
 Matthews, V. A. 3699
 Matthews, W. C. 5780
 Mattiazzo, G. 6882
 Mattivi, F. 6720
 Mattoo, A. K. 6944-6945, 8610
 Matulewicz, M. C. 8934
 Matus, Z. 8636
 Matuzaki, K. 4092
 Mate, C. 541
 Mateke, S. M. 10054
 Mateos, L. 5428
 Mathad, J. C. 9477
 Mathai, C. K. 3679
 Máthé, Á. 7550, 9248
 Mather, D. E. 7844
 Mather, J. C. 6137
 Mathesius, U. 6165
 Mathew, B. 614, 1560, 2400, 3437, 5532, 6113, 8794, 9712, 10639
 Mathew, J. 6389, 10920
 Mathew, K. L. 9107
 Mathew, M. 942, 9075
 Mathew, P. G. 9820
 Mathew, S. K. 9558
 Mathew, T. 5302
 Mathews, H. 2721
 Mathey, C. A. 3969
 Mathiasson, L. 9588
 Mathieu, C. 4835
 Mathieu, V. 7456
 Mathis, P. 5543-5544, 6482
 Mathooko, F. M. 3730, 4947
 Mathur, N. 781, 3209, 3691, 5517-5519, 11017
 Mathur, R. 4200
 Matitschka, G. 4073
 Matlawska, I. 875
 Matoh, T. 6804
 Matschke, J. 3375, 8756, 8850
 Matsubara, Y. 4533, 5197, 10512
 Matsubara, Y. I. 3101, 5062, 6002, 10119
 Matsuda, A. 4440
 Matsuda, H. 3549
 Matsuda, T. 2939, 2939
 Matsuda, Y. 3944
 Matsueda, R. 6289
 Matsui, H. 605, 5743, 8335, 8482
 Matsui, K. 411
 Matsui, M. 526, 1363, 4124, 5010
 Matsui, N. 38, 9761
 Matsui, S. 3093, 3460
 Matsui, T. 3269, 7825-7826, 9612, 9614
 Matsumoto, A. 1650, 4974
 Matsumoto, I. 5377
 Matsumoto, K. 3738
 Matsumoto, M. 10396
 Matsumoto, R. 4526, 6336, 9872, 10861
 Matsumoto, T. 4436, 6252
 Matsumoto, T. K. 7870-7871
 Matsumura, T. 3944
 Matsunaga, M. 7958
 Matsuno, Y. 7590
 Matsuo, K. 4646, 7362
 Matsuo, T. 5439
 Matsuoka, I. 9918
 Matsuoka, T. 8612
 Matsushita, K. 2279
 Matsushita, Y. 4513
 Matsuura, S. 2221
 Matsuzaki, T. 6104
 Matsuzoe, N. 5092, 8655
 Matta, F. B. 63, 197, 200, 4342, 6466, 7543
 Mattas, K. 494
 Matthaiou, A. 274
 Mattheck, C. 2458
 Matthee, G. W. 10215
 Mattheis, J. F. 7505
 Mattheou, A. 264, 2088, 9401
 Matthews, H. R. 3117
 Matthews, M. A. 7630, 9381
 Matthews, R. F. 5409
 Matthews, R. G. 8914
 Matthews, V. 1553, 3438
 Matthews, V. A. 3699
 Matthews, W. C. 5780
 Mattiazzo, G. 6882
 Mattivi, F. 6720
 Mattoo, A. K. 6944-6945, 8610
 Matulewicz, M. C. 8934
 Matus, Z. 8636
 Matuzaki, K. 4092
 Mate, C. 541
 Mateke, S. M. 10054
 Mateos, L. 5428
 Mathad, J. C. 9477
 Mathai, C. K. 3679
 Máthé, Á. 7550, 9248
 Mather, D. E. 7844
 Mather, J. C. 6137
 Mathesius, U. 6165
 Mathew, B. 614, 1560, 2400, 3437, 5532, 6113, 8794, 9712, 10639
 Mathew, J. 6389, 10920
 Mathew, K. L. 9107
 Mathew, M. 942, 9075
 Mathew, P. G. 9820
 Mathew, S. K. 9558
 Mathew, T. 5302
 Mathews, H. 2721
 Mathey, C. A. 3969
 Mathiasson, L. 9588
 Mathieu, C. 4835
 Mathieu, V. 7456
 Mathis, P. 5543-5544, 6482
 Mathooko, F. M. 3730, 4947
 Mathur, N. 781, 3209, 3691, 5517-5519, 11017
 Mathur, R. 4200
 Matitschka, G. 4073
 Matlawska, I. 875
 Matoh, T. 6804
 Matschke, J. 3375, 8756, 8850
 Matsubara, Y. 4533, 5197, 10512
 Matsubara, Y. I. 3101, 5062, 6002, 10119
 Matsuda, A. 4440
 Matsuda, H. 3549
 Matsuda, T. 2939, 2939
 Matsuda, Y. 3944
 Matsueda, R. 6289
 Matsui, H. 605, 5743, 8335, 8482
 Matsui, K. 411
 Matsui, M. 526, 1363, 4124, 5010
 Matsui, N. 38, 9761
 Matsui, S. 3093, 3460
 Matsui, T. 3269, 7825-7826, 9612, 9614
 Matsumoto, A. 1650, 4974
 Matsumoto, I. 5377
 Matsumoto, K. 3738
 Matsumoto, M. 10396
 Mat

- Mazzinghi, P. 9527
 Mazzone, P. 3914
 Mazzotti, A. 3933
 Mazzuca, S. 8101
 Mazzucchi, U. 2290
 Mbah, B. N. 1787
 Mbugua, J. N. 9032
 Mbwana, A. S. S. 9005
 Me, G. 224, 300, 1138, 3959
 Mead, F. W. 4431
 Mead, J. M. 1878
 Meana T., L. I. 5727
 Mecella, G. 10405
 Mecnas, L. M. R. 5542
 Medan, Y. 8125
 Medany, M. A. 2226, 6056, 9581
 Medeiros, M. A. de 3654
 Mederos, J. D. 5479-5480
 Medina, M. 6483
 Medina, S. 3497
 Medina Morales, M. del C. 2700, 2706
 Medina-Urrutia, V. M. 9975, 9978
 Mednyánszky, Z. 7643
 Meenattoor, J. R. 9073
 Meer, P. van der 8723
 Meeran, M. N. 3641
 Meerow, A. W. 687, 6224
 Meesters, P. 229, 3939, 5730, 10280, 10289
 Meeteren, U. van 9696
 Meus, P. 442
 Meuse, B. J. D. 2417, 7885
 Megies, M. G. 5553
 Meher, B. B. 9613
 Meheriuk, M. 1972, 2001
 Mehla, C. P. 7668, 9554
 Mehlenbacher, S. A. 1064
 Mehouchachi, T. 1806
 Mehra, P. 2567
 Mehrotra, R. S. 10943
 Mehrotra, S. C. 5005
 Mehta, A. 916
 Mehta, B. S. 489, 5084
 Mehta, P. 916
 Mehta, P. K. 10485
 Mehta, R. A. 6944-6945
 Mehta, R. M. 7418
 Mehta, V. S. 4024
 Mei, F. L. 6971
 Mei, R. H. 1696
 Mei FanLi 6971
 Mei RuHong 1696
 Meier, R. 1313
 Meier, U. 2094, 4015-4016, 4447
 Meijaard, D. 1010
 Meijkamp, B. B. 9706
 Meikle, R. D. 2514
 Meinardi, R. 6713
 Meinzner, F. 5248
 Meir, S. 6086, 6257, 6266
 Meiri, A. 513
 Meister, M. 9853
 Mejía Muñoz, J. M. 5196, 5250
 Melakeberhan, H. 3819
 Meland, M. 2937-2938
 Melanta, K. R. 1793, 8112, 9940
 Melchior, W. 5824
 Mlegari, M. 5317
 Melenets, Yu. V. 3144
 Melero, J. M. 3084
 Melfi, D. 352
 Melgarejo, P. 1452, 2663, 6018
 Melis, M. 5387, 6623, 8956
 Melkonian, J. 5906
 Mellidis, A. S. 2524
 Mello, C. M. C. 8036
 Melo, N. 1559
 Melo, P. E. 4117
 Melo, W. J. 506
 Melton, L. D. 2007, 2009, 4792
 Memiçoglu, M. 207
 Memon, M. A. 2772
 Menale, B. 9754
 Ménard, C. 3494
 Ménard, E. 3059
 Menasveta, P. 778
 Mencarelli, F. 231, 540, 6776, 8400
 Mencuccini, M. 9908
 Mendis, M. H. 8721
 Mendoza Arizmendi, J. L. 5196
 Meneses, J. F. 5567
 Meneses Junior, J. 10913
 Meneuvrier, M. 1671
 Menezes, A., Jr. 5341
 Menezes, E. B. 6201
 Menezes, J. B. 3663
 Menezes, L. C. 2454, 6173-6174
 Menezes Porto, O. de 2600, 7207
 Meng, J. X. 560
 Meng, M. E. 8279
 Meng, Q. L. 6354
 Meng, Q. X. 125, 189
 Meng, X. D. 8710
 Meng, Z. Q. 1106, 2909
 Meng JianXin 560
 Meng MingE 8279
 Meng QingLong 6354
 Meng QingXiang 125, 189
 Meng XiangDong 8710
 Meng ZhaoQing 2909
 Menge, J. A. 3572
 Menghini, S. 8094
 Mengüç, A. 600, 7973
 Menke, F. 7620
 Menna, C. 2641
 Mennella, G. 5859
 Mennella, G. F. F. 3914
 Menon, V. S. 7932
 Mensuali-Sodi, A. 3258
 Menz, K. M. 10002
 Menzel, C. 2632, 2634
 Menzel, C. M. 854, 1749-1750, 1754, 2635, 3614, 4540, 7252, 9900
 Meotto, F. 5151
 Merakchińska, M. 6846
 Merakchińska-Nikolova, M. 6845
 Meranzova, R. 5562
 Mercadante, A. Z. 5305
 Mercer, M. D. 342
 Mercer, R. T. 10846
 Mercier, J. 1125, 4876
 Mercik, S. 2060, 3009, 7443
 Merckx, R. 3109, 6799
 Meredith, C. P. 1226
 Meredith, P. C. 8443
 Merész, P. 9213
 Merfort, I. 5333
 Merhaut, D. J. 3927, 9525
 Meriçli, A. H. 8766-8767
 Meriçli, F. 8766-8767
 Mériillon, J. M. 1768, 10328
 Merino, R. 10323
 Merino H., R. 7593
 Merkle, S. A. 7085
 Merkulov, S. M. 10230
 Merkys, A. 3207
 Mermier, M. 5567, 7684
 Mermillod, G. 4718
 Merodio, C. 7434, 8109, 8999, 9924
 Meron, M. 4777
 Merriman, P. R. 900
 Merryweather, A. 8687
 Mersie, W. 358, 1379
 Merten, A. 5915
 Mertens, M. 6193
 Mervat, E. S. 9602
 Merwe, A. P. van de 9153
 Merwin, M. 9644
 Merz, F. 5020, 6825
 Meschine, M. C. 2698, 4602
 Meshreki, A. M. 9200
 Messeri, C. 2646
 Messiaen, J. 5140
 Messick, D. L. 8222
 Mészáros, Z. 1958
 Metcalf, L. 993
 Metche, M. 8421
 Méthy, M. 2809
 Metwally, M. E. 528
 Metwely, G. M. 5104
 Metzger, J. W. 8897
 Metzger, P. 775
 Metzidakis, I. 887, 4554, 6607, 9909
 Metzidakis, I. T. 816
 Meulen-Muisers, J. J. M. van der 9706
 Meunier, J. C. 1298
 Meurrens, F. 3016
 Meurs, E. J. J. 1491
 Meyer, J. L. 6302
 Meyer, J. P. 4902-4903
 Meyer, J. R. 9287
 Meyer, M. 3020
 Meyer, N. L. 6877
 Meyer, S. 3499
 Meyerson, M. E. 4908
 Mezghani Aiachi, M. 10129
 Mező, G. 8629
 Mhameed, S. 2580
 Mheen, H. J. van der 8901
 Mhosole, M. S. C. 10014
 Mi, F. 3112
 Mi, J. J. 471
 Mi, W. H. 3772
 Mi Feng 3112
 Mi WenHuang 3772
 Miah, M. K. 9486
 Míaja, M. L. 224, 3959
 Miao, C. 10452
 Miao, F. S. 1431
 Miao, P. S. 1831, 9104
 Miao, Q. X. 5703
 Miao, S. L. 5695
 Miao, Y. 4100, 4260
 Miao Chen 10452
 Miao PingSheng 1831
 Miao QiXin 5703
 Miao SongLin 5695
 Miao Ying 4100, 4260
 Miazzi, M. 1229
 Michael, G. W. 7293
 Michael, H. N. 8896
 Michailides, T. J. 9340
 Michalak, M. 7053
 Michalcuk, L. 7443
 Michalek, W. 2173-2174, 4995-4996
 Michalik, B. 345, 550, 4967-4968
 Michałojć, Z. 4874
 Michalski, P. 4874
 Michaud, M. H. 8021
 Michaux-Ferrière, N. 1225, 10916
 Michaux-Ferrière, N. M. 9026
 Michel, H. 3044
 Michelakis, N. 3618, 6361
 Michelakis, S. 6933
 Michelatti, G. 2900
 Michele, A. de 2665
 Michelesi, J. C. 4840, 7456-7457, 8357
 Micheletti, V. 7398
 Micheli, L. de 9387
 Michelis, M. I. de 2191, 6802
 Michels, S. 349
 Michelson, E. 790-791, 4475
 Michez, J. M. 7613
 Mičić, N. 2028, 8238
 Micke, W. C. 4743, 4752
 Mickelbart, M. V. 7349
 Middleton, E. M. 8583
 Middleton, L. A. 4011
 Midmore, D. J. 4006, 4943, 9415, 9421
 Miège, C. 2150
 Miehé, J. A. 10721
 Mielke, E. A. 5679
 Mière, P. le 6677
 Miernyk, J. A. 449
 Miggiano, A. 1372
 Migheli, Q. 632, 1047
 Migita, S. 5350
 Miglietta, F. 3983
 Migliorini, C. 83
 Mignani, I. 2824, 9218
 Migo, T. 499
 Miguel, M. D. de 1238, 3046
 Miguel Cházaro, B. 6963
 Miguel Leiva, J. 8138
 Mihelič, L. 10418
 Mihelič, R. 10437
 Miholová, D. 8219
 Mii, M. 1598, 4181, 5191
 Mika, A. 3782, 3854, 6553, 6556, 7464, 7478, 8264, 8284, 9292
 Mikeš, V. 4268
 Mikhalevskaya, O. B. 5282
 Mikheev, P. V. 10582
 Mikhovska, D. 5684
 Miki, K. 6073
 Miki, T. 4614
 Mikitzel, L. J. 4196
 Miklus, M. B. 9631
 Miksch, M. 10581
 Mikulovich, T. P. 4142
 Mikul'skaya, N. I. 4254
 Mikuš, M. 5045
 Milburn, J. A. 2749, 4408, 6446
 Milenković, S. 7486, 7548
 Miles, D. B. 10271
 Milholland, R. D. 1212
 Miliadis, G. E. 1987
 Militano, L. 4849
 Militins, M. S. 9439
 Miljković, I. 10092, 10223
 Mikowska, L. 1390
 Milkus, M. B. 3345
 Millán M., R. 7593
 Millard, P. 2802, 2823
 Miller, A. R. 2222
 Miller, D. 2018, 10714
 Miller, D. D. 7020
 Miller, I. J. 6295
 Miller, J. E. 2018
 Miller, J. H. 2465
 Miller, K. 7522-7523
 Miller, L. 10254
 Miller, M. W. 3999, 7849
 Miller, N. 2345
 Miller, R. H. 7536
 Miller, R. W. 351, 2961, 3122
 Miller, R. W., Jr. 2965
 Miller, S. A. 10271
 Miller, S. S. 10147
 Miller, T. E. 10434
 Miller, W. B. 1545, 7887-7888, 9662
 Miller, W. M. 5407
 Miller, W. R. 4530, 5400
 Millet, B. 10835
 Milligan, S. B. 1474
 Millner, P. 4169
 Millner, P. A. 4168
 Millot, P. 2208
 Mills, H. A. 8818
 Mills, T. M. 5605, 10114
 Milne, B. R. 2154
 Milne, B. T. 4340
 Milne, D. L. 784, 1002
 Milner, R. E. 7053
 Milona, G. 8103
 Milotay, P. 9507
 Milthorpe, P. L. 4469, 9862
 Milyaeva, E. L. 4315, 7882, 8038
 Mimaki, Y. 5199
 Mimi Abraham 5467
 Mimura, T. 3541, 6276
 Min, B. H. 10459
 Min, G. G. 1495, 2108, 10584
 Min, G. W. 1340
 Min, S. R. 1345
 Min, T. G. 9417
 Min ByungHoon 10459
 Min GiGun 2108, 10584
 Min TaiGi 9417
 Minae, S. 10054
 Minaeva, S. V. 1355
 Minami, M. 7158, 7162, 8026
 Minamikawa, T. 672, 7914
 Minamishima, M. 6567, 6601, 10214
 Mincione, B. 4849, 8053
 Minco, G. di 2084
 Minegishi, N. 9450
 Minelli, E. V. 8956
 Minematsu, T. 4533
 Mineo, G. 3670
 Ming, G. D. 5642
 Ming GuiDong 5642

- Minghetti, I. 6629
Minguez, A. 10386
Minguez, S. 7604
Minguez-Mosquera, M. 1761
Minguez-Mosquera, M. I. 865, 4552
Minguzzi, A. 3840, 3845-3846
Minhas, P. P. S. 5675
Mini Abraham 9944
Minner, D. D. 3445
Minnocci, A. 3622
Mino, Y. 4457
Minoiu, N. 202
Mintiens, A. 7682
Minuto, A. 632, 746, 1047, 1666, 5175
Minuto, G. 746, 5175, 6929
Mioskovski, C. 5796
Mioskowski, C. 10632
Miquelão, R. M. 4885
Mira, J. 2119
Miranda, J. C. C. de 5542
Miranda, T. 3733
Miranović, K. 2645
Mirecki, R. M. 1167
Miro, F. 8097
Mironowica, A. 54
Mirto, I. 2665
Misawa, H. 5885
Mischke, C. F. 9454
Misger, A. R. 10151
Mishanec, J. J. 3095
Mishereky, J. F. 9570
Mishra, A. K. 4435
Mishra, B. K. 6733
Mishra, D. N. 6430, 9571
Mishra, M. 5070, 9981
Mishra, M. K. 2699
Mishra, P. N. 1962
Mishra, R. S. 1820
Mishra, S. D. 10642
Mishra, S. K. 6298
Mishra, V. K. 2820, 6186
Mišić, P. D. 2966
Misrlhi, A. 8322, 8343, 9243-9244, 9252
Misquith, S. 8114
Misra, A. K. 6811, 10957
Misra, J. 2240
Misra, K. K. 9048
Misra, M. 7147
Misra, P. K. 9548
Misra, R. L. 7890-7891
Misra, R. S. 6815
Misra, S. 7926
Misra, S. G. 4941
Misra, S. P. 6815
Missere, D. 3749
Missotten, C. 5729
Misterek, E. 7658
Misumi, T. 4802, 5168, 5406
Miszalski, Z. 7047
Miszczak, A. 2068, 9210
Mitchell, A. R. 9831
Mitchell, C. A. 3728, 5572, 6876
Mitchell, P. D. 5660
Mitchell, R. B. 9833
Mitchell, R. J. 7128
Mitov, P. 10210
Mitra, G. C. 7198
Mitra, R. 8921
Mitra, S. K. 927, 1841, 4618, 7167, 7345, 8088-8089
Mitrassena, U. 10997
Mitropol'skaya, N. Yu. 6067
Mitsunaga, T. 9534, 10487
Mittal, N. 5083
Mittaz, C. 10298
Mittelstädt, H. 8328, 10085
Mitter, V. 2564
Mittermeier, M. 5334
Mitykó, J. 10360
Miura, H. 7590, 7719, 9416
Miura, K. 399
Miura, S. 6781, 6834
Miura, T. 6885, 10518
Mix-Wagner, G. 8046
Miyabe, Y. 9101
Miyajima, D. 7884
Miyajima, I. 10640
Miyajima, R. 3099
Miyakawa, K. I. 8895
Miyake, H. 6103, 9745
Miyake, I. 9717
Miyamoto, K. 7714
Miyamoto, S. 199
Miyazaki, K. 6978-6979
Miyazaki, M. 10399
Miyazaki, S. 1214
Miyazato, M. 2712, 2754, 3157-3158, 3673
Miyoshi, K. 1598, 8713
Mizrahi, Y. 1771, 5444
Mizue, Y. 6043
Mizuguchi, S. 3433
Mizukami, A. 7116
Mizuno, H. 10615
Mizuno, K. 11027
Mizutani, F. 164, 214, 844, 8305, 9402
Mizutani, J. 9497
Mizutani, T. 9752
M'Laouah, M. 8099
Mo, X. F. 5326
Mo XiaoFeng 5326
Mobambo, K. N. 4573
Mochida, M. 621
Mochioka, R. 5743, 8482
Mocioni, M. 1666, 5212, 7913
Mock, J. W. Y. 10791
Moda-Cirino, V. 2224
Modi, B. S. 5126
Moe, D. 5329
Moe, R. 628, 5194, 6097, 7873
Moel, C. P. de 4090, 4097-4098, 7706, 8498
Moerman, D. E. 6527
Moesinger, E. 4060
Mofizuddin Ahmed 8024
Moggi, M. A. 4676
Mohamad Deraman 10983
Mohamad Pauzi Ismail 10983
Mohamed, A. B. 8722
Mohamed, F. A. 2594
Mohamed, M. A. H. 6907
Mohamed, S. 6449
Mohamed, S. M. 4784, 6558, 9771-9772
Mohamed-Yasseen, Y. 793-794, 2153, 5246, 6497, 7256, 7666
Mohamedien, S. A. 2226
Mohammad Ishtiaq 684-685, 10685, 10724
Mohammed, A. A. 4518-4520
Mohamoud, S. H. 4137-4138
Mohan, E. 3519, 5464
Mohan, J. S. S. 3646
Mohan, K. 2732
Mohan, K. S. 10554
Mohan, N. K. 4576, 7204, 9996
Mohan, V. 7169
Mohan Lal 7268
Mohan Singh 9533
Mohana Rao, P. R. 619
Mohanakumaran, N. 2542
Mohandas, S. 8678
Mohanty, C. R. 8788
Mohanty, K. C. 7999, 8893
Mohanty, N. 369-370
Mohanty, P. 5238
Mohapatra, S. 4104
Mohapatra, S. M. 6739
Mohapatra, S. N. 7999, 8893
Mohapatra, U. 6830
Mohd Abbas 4950, 5346
Mohd Hashim, T. 925
Mohd Nor, M. Y. 2751
Mohd. Osman 1772
Mohd Razi, I. 496
Mohd Razi Ismail 495-496, 4652
Mohd. Zin Jusuh 980
Mohideen, J. S. 512
Mohideen, M. K. 1767
Mohmod, A. L. 980
Mohri, K. 2083, 2316, 4932, 6033
Mohsen, A. M. 2594
Mohsin, F. 9830
Moiseev, I. T. 4936
Mokhova, E. N. 9536
Mokhtari, A. 8524
Mokhtari, M. 7959, 7965
Mokhtary, R. 1682
Mokrzecka, E. 5098
Moldovan, S. 1161
Moleas, T. 3830
Mølgaard, P. 2563, 9843
Molhoek, W. M. L. 339
Molina, J. 5480
Molina, R. 1154
Molina Vivaracho, S. 7017
Molinari, F. 2964, 3749, 3820, 3870
Molinari, J. 6124
Molinatortes, J. 6273
Moll, B. 1698
Moll, J. 6682
Mollá, E. 304
Mollá, E. M. 10302
Mollendorff, L. J. von 206, 2974
Møller, P. 2189
Molloy, B. P. J. 8836
Molloy, F. J. 1699
Molnár, A. 10641
Molnár, J. 1085, 2847
Molnár, P. 10329
Molnár, S. 5624, 8308
Molnár-Perl, I. 9215
Moltó, E. 8966
Moltó, J. C. 2612
Molvray, M. 3458
Moly Saxena 4581
Momii, K. 4093
Momiya, T. 10533
Momonoki, Y. S. 8713
Monacelli, B. 2570
Monache, G. delle 2570
Monaghan, P. 5373
Monarca, D. 5559, 5646, 6034, 6498
Monasterio-Huelin, E. 232
Monasterio, F. 2992, 4723, 4849, 6638, 7558, 8053, 9228
Moncousin, C. 87, 6548
Mondal, A. T. 11012
Mondal, S. B. 10600
Mondal, S. N. 4607
Mondardo, M. 10154-10155
Monde, K. 5009
Mondera, A. 1763
Mondeshka, M. 6752
Mondini, C. 7746
Mondou, J. B. 7456
Monga, P. K. 8944
Monge, E. 2873, 2951-2952, 2957, 5658
Monje, P. V. 9737
Monma, S. 2056
Monmarson, S. 9932
Monnerat, P. H. 7185-7186
Monney, P. 6557
Monreal, M. 9993
Monsalud, M. J. 2721
Monsalud, M. J. R. 7322
Monserrat Delgado, A. 8058
Monta, M. 2083, 2316, 4932, 6033
Montaldi, E. 7864
Montanarella, L. 2365
Montanari, A. M. 5363
Montañés, L. 2000, 2873, 2951-2952, 2957, 5659, 6598
Montarone, M. 8846
Monte, G. di 6687
Monte, R. F. del 3969
Montecchio, L. 7921, 10199
Monteiro, A. A. 1375
Monteiro, A. M. 5482, 7307-7308
Monteiro, R. 5253
Monteleone, P. 9246
Montemurro, F. 4075
Montero, T. 304
Montero, T. M. 10302
Mortervino, A. 4008
Montes, S. 3656
Monteverdi, M. C. 7952
Montgomery, B. L. 1607-1608
Montgomery, C. C. 592
Montiel, A. 8984-8985
Montigaud, J. C. 1010
Montilla de Bravo, I. 10829-10830
Montoro, P. 2742
Montoya, M. M. 813-814, 818
Montoya Restrepo, E. C. 2693
Montury, M. 6980, 8734
Moody, P. W. 6353
Moolenbroek, J. van 3127, 3498
Moon, C. S. 3025, 10545
Moon, D. Y. 2085, 2103, 3598, 10857
Moon, J. H. 7081, 10756
Moon, J. Y. 1158, 3765, 6540
Moon, P. A. 7322, 7328
Moon ChangSik 3025, 10545
Moon DooYoung 2085, 2103
Moon DuckYoung 3598, 10857
Moon JaeHak 7081, 10756
Moon JongYou 3765
Moon JongYoul 6540
Moons, P. 162
Moore, B. D. 4165, 5049
Moore, B. S. 2417
Moore, D. 2359, 8728
Moore, F. 9442
Moore, F. D., III 5819
Moore, G. M. 4384-4385
Moore, J. N. 3919, 3925, 6652
Moore, P. P. 1204, 5720
Moore-Gordon, C. 797, 3566, 9870
Moorthy, V. R. 8717
Mor, M. 5245
Mora, J. 6426
Moraes, G. J. de 5902
Moraes, L. A. H. de 2600, 7207
Moraes, R. M. 3551
Moraes, V. H. F. 877
Moraes-Cerdeira, R. M. 9708
Moraga P., E. 10548
Morais, A. M. M. B. 10303
Morais, E. A. de 5542
Morais, F. 1559
Moral, R. 493, 511, 8628
Morales, C. F. G. 8054, 8068
Morales, C. H. 9025
Morales, C. L. 6317
Morales, F. 8611
Morales, J. 525
Morales, M. 10144
Morales, M. I. 332
Morales, M. T. 9913
Morales, P. 7852
Morales Valverde, R. 1677
Moran, M. S. 1170-1171, 2976
Moran, N. 4167
Moran, R. 2703, 9742
Morafida, J. 7047
Morandell, I. 6572
Morando, A. 4921
Morando, P. 4921
Morard, P. 6928
Moras, P. 7831, 10221
Morath, P. 4603
Morazzoni, P. 3028
Mordkovich, Ya. B. 3960
Moreau, B. 6474
Moreau, P. 3087, 5793, 5795
Moreau, R. A. 2311
Moreira, C. 6390
Morell, I. 4499
Morell, S. 4062
Morelle, B. 1035
Moreno, A. 7775
Moreno, D. 9039
Moreno, E. 7311
Moreno, G. 7311
Moreno, J. J. 6313, 8946
Moreno, M. A. 2840-2841, 5686, 6598
Moreno, M. L. 2138
Moreno, P. 3591
Moreno, S. 1219
Moreno, V. 10561
Moreno Díaz de la Espina, S. 10386
Moreno-González, J. 6604-6605
Moreno Rojas, R. 2265, 6880
Moretti, G. 3841
Moretti, R. 10405

- Moretto, P. 5080, 5663
Morgan, C. G. T. 191
Morgan, D. P. 9340
Morgan, E. D. 10771
Morgan, N. 7005
Morgaş, H. 3782, 3854, 9292
Morhy, L. 9106
Mori, B. 3776, 4389, 5941
Mori, G. 3439, 5203, 10653
Mori, H. 574, 4144, 4147
Mori, K. 1214
Mori, P. 5427
Mori, T. 8519
Mori, Y. 6821
Moricocchi, L. 8135
Morigi, M. 220
Moriguchi, T. 178
Morilla, A. 4896, 5432, 8105
Morimoto, M. 248, 3944
Morini, S. 203
Morino, M. 2833
Morioka, K. 8839
Morisaki, N. 9024
Morison, J. I. L. 1262, 5240, 9425
Morisset, C. 6278
Morita, M. 3687, 4533, 8541
Morita, O. 5163
Moritsuga, M. 2279
Moritz, T. 5482, 7308
Moriwaki, H. 10299
Morlat, R. 1231, 4001
Morley, B. D. 2412
Mornet, R. 5977
Moro, J. P. 3547
Morohashi, Y. 6009
Morone, C. 4919-4920
Morone Fortunato, I. 905, 5317
Morosi, E. 9828
Morot-Gaudry, J. F. 3063
Morozumi, M. 9481
Morozumi, S. 7712
Morpurgo, R. 6057
Morré, D. J. 3087, 6548
Morris, D. A. 2235
Morris, E. C. 10761
Morris, J. R. 6470
Morris, M. W. 7054
Morris, S. C. 10023-10024
Morrison, F. D. 4744
Morrow, C. T. 5632, 6589
Morse, J. G. 8952
Morse, R. D. 4086, 7700, 9476, 9586
Morte, M. A. 3372
Mortensen, K. 2063
Mortensen, L. M. 3496, 9792
Mortimer, J. 7376
Morton, A. 6270
Morton, J. 2461
Morton, L. 3953
Morton, R. H. 3807
Morton, S. J. 666, 4353
Morvan, H. 7820
Mosandl, A. 3627
Moscatello, S. 6645
Mosconi, F. 2055, 3933
Moser, L. 4854
Moshkov, I. E. 5573, 5976
Moshonas, M. G. 9897
Mosiniak, M. 4321
Mösl Waldhauser, S. S. 9035
Mosoni, P. 4777, 10109
Mosqueda Vázquez, R. 10826-10827
Mosquera, M. V. 294
Moss, C. B. 7195
Moss, R. 5552
Mossala, M. 1025
Mostafa, M. I. 5954
Mostajeran, A. 1682
Mostert, I. 6584
Mostert, M. M. 1755
Mostowska, A. 9539
Mostul, B. 6963
Mostul, B. L. 9741
Mota, J. W. da S. 9017
Motahar Hossain 3073
Mote, U. N. 7747
Motes, F. M. 2452
Motes, J. E. 1414
Moti Singh 7239
Motley, S. M. 5160
Motomori, Y. 1214
Motomura, Y. 8373
Motsenbocker, C. E. 6899
Mott, K. A. 1651, 5840
Motta, C. 4835
Mottley, J. 724
Motulo, H. F. J. 6394
Motyleva, S. M. 8263
Moue, T. 9451
Mougou, A. 4677, 7803
Mouli, B. C. 11009
Moulton, G. A. 2853
Mountfort, K. A. 1911
Moura, J. I. L. 4597, 6435
Moura, M. L. R. 518
Mourya, K. N. 4435
Mousa, Y. M. 9909
Moussa, Y. M. 4554
Moustafa, S. S. 3584, 5364-5365
Moutounet, M. 6716
Mowat, A. D. 10892
Moy, J. 9064
Moya, C. 5086
Moya, I. 8611
Moya, S. 7467
Moya-León, M. A. 8126
Moyano A., S. 4918
Moyen, C. 6935
Moyna, P. 1857
Moynihan, M. R. 4017
Mozafar, A. 347
Mozgovoi, E. G. 392
Mridula 6893
Mroginski, L. A. 6316
Mrvić, V. 4833
M'Sallem, M. 7241
Msallem, M. 10885
Msanya, B. M. 4446
Msika, R. L. 4036
Msuya, D. 5804
Mtaïta, T. A. 5804
Mu, M. H. 10471
Mu, Q. P. 10250
Mu, Q. Y. 6633
Mu, X. J. 8394
Mu, Y. H. 4218, 4226
Mu, Y. T. 157
Mu MengHua 10471
Mu QingPei 10250
Mu QiYun 6633
Mu XiJin 8394
Mu YongHua 4226
Mu YongHuang 4218
Mubarack, M. M. 6653
Mucciarelli, M. 3523
Mücke, U. 452
Muda, P. 923
Mudgal, V. 7149
Mudrak, E. I. 6506
Mueller, J. 2362
Mugnier, J. 2425
Mugnozza, G. S. 40, 4686
Mugo, H. M. 9034
Mugridge, A. 3949
Muhamad Awang 7375
Muhammad Banaras 8621
Muhammad Nazir 9740
Muhammad Zubair 10098, 10691, 10743
Mühlbauer, S. 4438
Mühlbauer, W. 10182
Mujib, A. 2444, 6089, 7161, 7861, 10681
Mujibur Rehman 10470
Mujica, Y. 8677
Mukerji, K. G. 5083
Mukhamedkhanova, F. S. 5893
Mukherjee, A. 9850
Mukherjee, A. B. 9555
Mukherjee, A. K. 557
Mukherjee, K. K. 7167
Mukherjee, M. 9634
Mukherjee, P. K. 7137
Mukhiddinov, M. G. 4807
Mukhina, V. F. 8022
Mukhopad, Yu. 6737
Mukhoti, N. 701, 8834
Mukhtarova, L. S. 7659
Mukta, N. 8930
Muktesh Kumar 7927
Mukund Joshi 9559
Mulas, M. 4529, 5405, 7219, 8969
Mulcahy, D. L. 6683, 8989
Mulcahy, P. 7426
Muleo, R. 1181
Mulinacci, N. 2105
Muller, B. 6696
Müller, C. H. 2774
Müller, E. 3964
Müller, M. W. 7284
Müller, W. D. 6591
Mullinix, B. 1201
Mullinix, B. G. 4049
Mullins, C. A. 3195, 3768
Mullins, C. E. 443
Mumford, J. D. 891
Munakata, M. 6091
Mundaca B., N. 1195
Mungal, R. 9097
Muni Ram 7146, 8014
Muniappan, R. 3146
Muniswamy, B. 7295
Muniyappa, T. V. 8658
Muñoz, R. 2709
Muñoz S., C. 6510
Munro, M. 203
Munro, R. J. 8948
Munro, S. L. A. 7879
Munthali, S. S. 10054
Munyemana, P. C. 5457
Mura, P. 3617
Murai, S. 8003
Murai, Y. 8325
Murakami, H. 907, 6285
Murakami, K. 1903
Murakami, M. 5348
Murakami, Y. 6822
Muraleedharan, N. 1849, 2761, 3689
Murali, T. P. 4578
Muralidharan, P. 1668
Muramatsu, N. 4534, 5367, 5371-5372, 6344
Murano, E. M. 5352
Murase, H. 4684
Murashita, K. 7490
Murata, C. 5619
Murata, H. 9872
Murata, M. 5619, 6407, 10163, 10930
Murata, T. 8816
Murav'eva, A. S. 10582
Muravin, E. A. 7705
Murawa, D. 770
Murayama, H. 4844, 8772
Murayama, S. 4377-4378
Murayama, T. 8772
Murch, S. J. 5176
Murchison, G. B., Jr. 2113
Murgun, G. 4182
Murillo, A. 5670
Murisier, F. 267, 6699-6700
Murison, J. 2196-2197
Muro, C. 5850
Muro, J. 8624
Murofushi, N. 5033, 5884, 6099, 6277, 7496, 7917
Muromtsev, G. S. 7742
Murphy, B. C. 8476
Murphy, T. M. 6206
Murphy, T. R. 6149
Murray, D. S. 8187
Murray, G. A. 6410
Murray, L. W. 1410
Murray, M. 9510
Murray, R. D. 5419
Murray, S. H. 9224
Murray, V. G. 5419
Murray, V. S. G. 2839
Murren, C. J. 9759
Murri, G. 2054
Mursi, M. 10463
Murthy, B. G. 3083, 5074
Murthy, G. M. A. 2416, 3406
Murthy, N. K. 9559
Murthy, S. B. K. 5510, 7360
Murthy, S. V. K. 4505, 10910
Murti, G. S. R. 2324
Murua, J. R. 74
Musa, Z. 6382
Musabyimana, T. 1778
Musacchi, D. 5714-5716
Musacchi, S. 3847
Musacchio, D. J. 7294
Muscolo, A. 6957, 9621
Musetti, R. 4774
Mushtaq Ahmad 597, 5413
Musmade, A. M. 9874
Mustafa, T. M. 419, 3181
Musvoto, C. 7323
Mutanal, S. M. 1840
Muthalif, M. M. 8418
Mutsuda, M. 10403
Mutto Accordi, S. 10199
Mutton, P. 1094
Muy-Rangel, D. 9974
Muzafarov, I. Sh. 4230
Mwabumba, L. 10054
Mwaja, V. N. 8496
Mwakha, E. 953
Mwamba, C. K. 10054
Mwangi, L. M. 8052
Mwanza, S. 10054
Mwashenyi, E. 1779, 8148
Mwasumbi, L. 2332
Myczkowski, J. 2170-2172, 3128
Myers, M. D. 8414
Myers, P. N. 3728
Myers, R. E. 3875
Myers, S. 4727
Myhob, M. A. 5381
Myhre, D. L. 9888
Myrta, A. 7479
Nabi, M. N. 7373
Nada, E. 9557
Nadagoudar, B. S. 1840
Nadal, M. 266
Nadeau, P. 4251
Nadkarni, H. R. 1789, 8019, 8128
Nadolska-Orczyk, A. 1390
Nadori, E. B. 1717, 10823
Nadulski, R. 1382
Naef, H. S. D. 8202
Naess, S. K. 6653
Nagahashi, G. 10578
Nagai, A. 390
Nagai, K. 62, 395
Nagao, E. O. 8943
Nagaoka, M. 9420
Nagaoka, T. 1465
Nagar, P. K. 3609, 8167, 10863
Nagarajan, M. 6524, 6743
Nagaraju, C. G. 5462
Nagaraju, V. 3429, 4371, 4382, 4437, 7939, 9666, 9846, 9880
Nagareya, N. 4513
Nagashima, K. 8525
Nagata, K. 2999
Nagata, R. 1409, 9024
Nagata, R. T. 4078
Nagata, T. 7002
Nagatomo, Y. 512
Nagayama, T. 2833, 6380
Nagel, D. 8660
Nagel, O. W. 4236
Nagesh, M. 7003
Nageswara Rao, D. V. K. 4638
Nagia, D. K. 4198
Nagoor Meeran, M. 3641
Nagre, P. K. 7329
Nagwekar, D. D. 7994
Nagy, C. 8236
Nagy, J. 7643
Nahm, G. B. 7438, 7498
Nahrstedt, A. 2536, 4387
Naibi, A. M. 8760
Naidu, M. M. 1803, 7295
Naidu, M. V. 6397
Naidu, R. 753, 9027, 9031
Naik, K. R. 3694
Naik, T. B. 6401
Nailon, J. 10628
Naim, Z. 7221
Nair, A. G. R. 8774
Nair, C. S. J. 1782
Nair, G. S. 9820
Nair, N. K. 1665

- Nair, R. R. 1800
Nair, R. V. 9948
Nair, S. R. 1782, 8762
Nair, T. V. R. 2243
Naito, Y. 5838
Nakagawa, H. 4614
Nakagawa, J. 2220, 4159
Nakagawa, R. 8525
Nakajima, D. 3489
Nakajima, N. 5031, 5093, 6782, 7795
Nakalamić, A. 3037
Nakamura, M. 1633, 4560, 4802, 5406, 9918
Nakamura, R. 3652, 4947, 6032, 8502, 8990, 10079-10080, 10222
Nakamura, S. 4325
Nakamura, T. 5294, 6234, 7120, 7529
Nakamura, Y. 9717
Nakane, M. 3279
Nakane, T. 8817
Nakano, M. 10650
Nakano, R. 9916
Nakano, T. 3687, 9088
Nakano, Y. 4689, 8594
Nakao, H. 6800
Nakao, S. 5768
Nakao, T. 9695
Nakash, Y. 8633
Nakashima, T. 1214, 1405, 8544
Nakashimada, Y. 6243
Nakatoh, Y. 9410
Nakatsuka, A. 6032
Nakayama, M. 3018, 4181, 5884, 6135, 6961, 8335, 8612, 10457
Nakayama, T. 9497
Nakazawa, Y. 5899-5900
Nalawadi, U. G. 7953
Nali, C. 9504
Nallathambi, P. 10593
Nalwadi, U. G. 10970
Nam, C. W. 3425
Nam, Y. I. 2158
Nam ChunWoo 3425
Nam YoonIl 2158
Namanya, P. 3640
Namasivayam, C. 465
Nambiar, I. P. S. 1800
Nambisan, K. M. P. 6747
Namera, A. 9851
Namgyel, P. 721
Namiki, F. 3177
Namiki, T. 4055, 4222
Nampeera, F. 3640
Nanaya, K. A. 10847
Nanayakkara, N. P. D. 9708
Nanba, N. 2712, 3157-3158, 3673
Nanba, S. 6420
Nandal, S. N. 519, 6932
Nandal, T. R. 5835
Nandekar, D. N. 9441, 9549
Nandi, A. 488, 8511, 8642
Nandi, R. 10600
Nandi, S. K. 6457
Nandita Singh 2240
Nandpuri, K. S. 545
Nandwani, D. 5517
Nani, R. 2631
Nanjappa, H. V. 3244
Nankova, T. 10422-10423
Nanninga, N. 5053
Nannipieri, P. 107
Nanthaphothidej, C. 4203
Naor, A. 3985
Napier, E. 5702
Naqvi, A. A. 7146
Naqvi, S. A. M. H. 3714, 4671, 6342
Naraguma, J. 97, 10279, 10283
Narain, A. 4266
Narayan, R. 9472
Narayan Chattopadhyay 10914
Narayanankutty, C. 9014
Nard, M. le 7022
Nardella, N. 5660
Nardi, S. 9621
Nardo, G. 7421
Nardon, E. 8700
Narendra Sankhla 616
Narendra Singh 4960
Narendrappa, T. 6378, 10911
Naresh Kumar 3675
Narganes, M. J. 2139
Narvaiz, P. 572
Nascimento, W. M. 3191, 3245, 3309, 4117, 7753
Nash, N. 1599
Nasima Akhtar 3073, 3326
Našinec, V. 7752
Nasir, I. A. 849
Nasir, J. 9059
Nasir Ali 2545
Nasiruddin, K. M. 9580
Nasr, Z. 10127
Nass, R. 4314
Nassif, F. 2806
Nasta, D. 6766
Natale, W. 914, 8147
Natali, S. 2641, 3841, 3856, 9378
Natarajan, S. 4191, 4195, 10529
Natera, C. 2851
Natesan, S. 8181
Nath, A. 3338
Nath, J. C. 7204
Nath, M. 10007
Nath, N. 9008
Nath, P. D. 3229
Nath, V. 8231
Nathan, M. J. 10656
Nathu Singh 10361
Natsume, M. 4325, 5034
Natural, M. P. 884, 9937
Natwick, E. T. 9510
Nau, J. 2792
Naudé, W. 2603
Naulet, N. 1764
Nautiyal, M. C. 1917
Nava Ayala, J. 9878
Navara, J. 1099
Navari-Izzo, F. 179
Navarrete, M. 4213
Navarro, A. 8298
Navarro, É. 8298
Navarro, E. 8352
Navarro, L. 3591, 9798, 10872
Navarro, M. J. 3342
Navarro García, S. 1154
Navarro Pedreño, J. 511, 8628
Navatel, J. C. 8388, 10255
Navazio, L. 4975
Navez, B. 4232
Navone, P. 1095
Nawab Ali 10470
Nawale, R. N. 1789, 8019, 8128
Nawar, A. 7201, 7215, 7220, 7317-7318
Nawlakhe, S. M. 337
Nayak, M. G. 7281, 9941
Nayak, S. 6259, 8902
Nayar, N. K. 1668, 1800, 9783
Naylor, A. P. 6703
Naylor, D. H. 4669
Naylor, S. K. 4669
Nazeeb, M. 10980
Nazeem, P. A. 8923
Nazeema, K. K. 9107
Nazir Ahmad 10799
Nazzaro, R. 9754
N'Cho, Y. P. 1799
N'Cho Yavo, P. 7290
Ndamba, J. 2563, 9843
Ndubizu, T. O. C. 1781
Ndung'u, C. K. 9409
Ndungu, J. 10054
Neary, P. E. 4186
Neda, H. 6978-6979
Nedelcheva, S. 10190
Nee, C. C. 1166, 1894, 2655
Nee ChengChu 1166, 1894, 2655
Neena Sharma 5494
Neervoort, W. 1662
Neeson, R. J. 2127
Neeta Shrivastava 3538
Neeta Singh 10424
Negi, C. P. 10406
Negi, P. S. 7794, 10599
Negi, R. S. 3559
Negi, Y. S. 10202, 10262
Negoro, M. 2067
Negri, R. C. 1300
Negri, V. 1943
Nehra, B. K. 2268, 7840, 9554
Nehru, C. 579
Neilsen, D. 1956, 2877
Neilsen, G. H. 1956, 2001, 2802, 2867, 2877
Neilson, W. T. A. 237
Neimanis, S. 4970, 7121
Neira, R. 6390
Neira C., M. 1195
Neja, R. A. 1251
Nel, A. 10971
Nel, D. J. 9928
Nell, T. A. 4328, 4410, 6094, 9006, 9652, 9746, 9779
Nellen, A. 5014
Nelson, E. B. 10672
Nelson, E. C. 2412, 2432, 2497, 8849
Nelson, P. 1878, 7001
Nelson, P. V. 9655-9656, 9665
Nelson, R. G. 8759
Nelson, S. J. 4191, 4195, 10529
Nelson, S. O. 2019, 5668
Nema, B. K. 7331
Nema, M. K. 7331
Nemec, S. 9888, 10552
Neményi, A. 8824
Németh, I. 265
Nemoto, H. 484
Nenadović-Mratinič, E. 146
Nencini, A. 8016
Nenov, N. 10765
Neog, M. 933
Neori, A. 6299
Nepal, Lumle Agricultural Research Centre 9128
Nepal, Pakhribas Agricultural Centre 9129
Nepal Singh 464
Nepi, M. 2217, 4155, 5921, 8585
Nerd, A. 4564, 5444
Neri, F. 3862, 9304
Neri, U. 10405
Nérinckx, F. 5140
Nerozzi, F. 1999
Nerson, H. 3192
Nervo, G. 1412
Nery, A. A. 1484, 8698
NeSmith, D. S. 1201, 3926
NeSmith, S. 7578
Nessler, C. L. 8911
Nestby, R. 5706
Nesterenko, T. V. 7738
Nesterowicz, J. 5701
Netherlands, Laboratorium voor Bloembollenonderzoek 8195
Netherlands, Landbouw-Economisch Instituut 5533
Netherlands, Proefstation voor de Akkerbouw en de Groeneteelt in de Vollegrond Regionale Onderzoekcentra 2796
Netherlands, Research Station for Fruit Growing, Wilhelminaldorp 5550
Neubauer, C. 6770
Neuburger, M. 3119, 3221, 8614
Neuenschwander, P. 1829
Neugebauer, W. 3635
Neuhaus, G. 3300
Neuhaus, H. E. 5079, 5875
Neumann, D. 6029
Neumann, H. H. 1230
Neumann, S. 633
Neumann, U. 1245
Neuvel, J. J. 2244, 4157
Neuweiler, R. 1193, 3003, 3921, 5713, 8422
Neves, C. S. V. J. 1027
Neville, P. 4340, 6223, 7184
Nevins, D. J. 7399, 7646
Newell, C. 7107
Newell, L. 6219
Newman, J. D. 3198
Newman, S. E. 4393
Newton, A. C. 4263
Newton, A. S. 5897
Newton, A. S., Jr. 1892
Newton, L. E. 1590, 5239, 9733
Newton, R. H. 1864
Ney, B. 5060
Neyens, K. 543, 10566
Ng, C. K. Y. 6178
Ng, J. C. 7191
Ng, K. H. 7757
Ng, M. 9985
Ng, T. B. 4450, 10791
Ng TziBun 4450
Ngim, J. 6434
Ngo, H. 3160
Ngo Van Thu 5147
Ng'ong'ola, D. H. 10054
N'Guetta, K. 4571
Ngugi, C. W. 9844
Ngulube, M. R. 4654, 11028
Nguyen, V. 6512
Nguyen-Ban, J. 9951
Nguyen Cong Hoan 4700
Nguyen Huu Huy 5147
Nguyen Sy Huong 5147
Nguyen Thai Ngoc 5147
Nguyen Tuan Hao 5147
Nguyen Van Tuong 5147
Ni, J. 9861
Ni, Y. Y. 1748, 4542, 8973
Ni Jian 9861
Ni YaoYuan 1748, 4542, 8973
Nibe, A. 1981
Nicaise, C. 2034
Nicander, B. 5945
Nicolli, A. 8355
Nicholas, P. 7
Nicholls, C. 994
Nicholls, J. 994
Nicholson, M. S. 2361
Nickerson, C. 6538
Nickerson, G. B. 4305-4306
Nickolov, N. 7651
Nicola, S. 6777
Nicolas, J. 152, 2002-2003
Nicolas, Y. 2097
Nicoletta, G. 5902
Nicolini, G. 1256
Nicolodi, C. 2224
Nicolosi Asmundo, C. 3995
Nicrota, A. 4854
Nie, F. 3431
Nie Fan 3431
Niedz, R. P. 4515
Nielsen, G. H. 2885
Nielsen, N. E. 5311
Nielsen, N. E. 8011
Nielsen, O. F. 2371
Nielsen, S. S. 6876
Niemczyk, E. 10111
Niemczyk, H. 8810-8811, 9724-9729
Niemiera, A. X. 5280, 6210
Niemyska, B. 7818
Nienhuis, J. 4158
Niers, H. 5823
Nieves, N. 7210, 7214, 8074
Niewiadomska, E. 7047
Nigam, K. B. 5346
Nigeria, Federal Ministry of Agriculture and Natural Resources 7387
Nigg, H. N. 6320
Nigge, W. 2536
Niggli, U. 110
Nigmatullaev, A. 4019
Nigro, F. 7563
Nihayati, E. 7072
Nii, N. 176, 4629
Nii, T. 2056
Niida, T. 4791, 10145
Niimi, Y. 2710, 8144, 10650
Niizeki, M. 1942
Nijskens, J. 6500
Nikhil Kumar 9277
Niki, T. 1392
Nikiforova, V. Y. 4315
Nikita, I. I. 9176

- Nikitin, A. L. 4733
 Niknam, H. 6202
 Nikolaeva, M. K. 5960
 Nikolaou, J. 2576
 Nikolaou, N. 274, 2088, 6701, 9401
 Nikolić, M. 2931
 Nikritin, L. M. 1098
 Nikulin, A. 2894
 Nikulin, G. N. 8261
 Nikul'nikov, I. M. 8051
 Niles, R. K. 2589
 Nilsamranchit, S. 4464-4465
 Nilsson, A. 5918
 Nilsson, L. A. 6216
 Nilsson, T. 2365
 Nimmermark, S. 8216
 Nimmo, H. G. 5243
 Nimtz, M. 8897
 Nimura, M. 3420, 8839
 Nin, S. 9828
 Ning, L. 2435
 Ning, Y. W. 4014
 Ning Li 2435
 Ning YunWang 4014
 Ninić-Todorović, J. 1139
 Niopas, I. 2524
 Nirasawa, S. 1697
 Nirmal Sharma 10834
 Nirmal Singh 9426
 Nirmala Pant 6624
 Nisha Raghava 2373
 Nishi, A. 2327
 Nishi, S. 9145
 Nishi Mathur 781, 3209, 3691, 5518-5519, 11017
 Nishi Sharma 6281
 Nishiba, Y. 3737
 Nishibata, T. 4601
 Nishijima, C. 5431
 Nishijima, T. 3103, 5884, 7719, 7764, 9416
 Nishikawa, N. 5034
 Nishimiya, S. 1494
 Nishimura, I. 4971
 Nishimura, K. 4809
 Nishimura, M. 176, 395, 415, 4144, 4147, 4629, 5914, 6833, 7731
 Nishimura, S. 536, 1406, 10533
 Nishina, H. 1904
 Nishino, T. 1697
 Nishio, J. 3388, 3420
 Nishio, J. N. 4509
 Nishio, T. 10533
 Nishioka, D. 9745
 Nishioka, M. 8938
 Nishitani, H. 7720
 Nishitani, K. 7714
 Nishitsuji, K. 7720
 Nishiura, Y. 4684
 Nishiyama, N. 6447
 Nishiyama, Y. 10101
 Nishizaki, Y. 5046
 Nishizawa, S. 1406
 Nishizu, T. 1479
 Nisi, P. de 2205
 Niseros, M. O. 7227
 Nissen, R. J. 868, 5435, 10088, 10204, 10213, 10893
 Nissen M., J. 3007
 Nissinen, M. 6485
 Nitis, I. M. 4587
 Nito, N. 2620, 6315, 7399, 10739, 10836
 Niu, E. Z. 3233
 Niu, Z. D. 3052
 Niu, Z. M. 2854, 7371
 Niu ErZhou 3233
 Niu ZiMian 2854, 7371
 Niwa, K. 3268
 Nixon, P. 9812
 Nizami, S. S. 4631
 Nižnanská, M. 4265
 Nizovskaya, N. V. 5964
 Njenga, J. 5184
 Njoroge, J. M. 6402
 Njoroge, S. M. 4535, 5411
 Njuguna, C. K. 3685, 6452
 Nkansah, G. O. 531
 Nobel, J. 1594
 Nobel, P. S. 2666, 4564, 5226, 5446, 7041, 7257, 8108
 Nobili, M. de 107, 7746
 Noble, R. 2338
 Nobuoka, T. 5091
 Nocentini, V. 10342
 Nockenbun, B. 9997
 Noda, H. 7665
 Noda, I. 10163
 Noe, J. P. 5776
 Noë, N. 2884, 7515
 Noël, D. 2771
 Noël, J. P. 3087
 Noël, K. D. 3198
 Noël-Suberville, C. 8734
 Noga, G. 378
 Nogata, Y. 8124
 Noguchi, K. 8521
 Noguchi, Y. 241
 Nogué, F. 5977
 Nogués, S. 444
 Noh, H. Y. 665
 Noh, S. H. 7511, 8230
 Noh HeeYoung 665
 Nohara, T. 6939
 Noilhan, J. 9386
 Noirot, M. 1798
 Nojiri, H. 5884
 Nolasco, H. 8830
 Noling, J. W. 5374
 Noltie, H. 1565
 Nolting, J. 8362
 Nomura, K. 4819, 9489
 Nomura, T. 1777
 Nonaka, M. 5884, 7490
 Nonami, H. 514, 2301, 8077
 Nonnecke, G. R. 3027
 Nonogaki, H. 6009
 Nonomura, A. M. 4509
 Noomhorm, A. 1833
 Noor, K. M. 11021
 Noor Badshah 148, 10098
 Noor Rahman 10098, 10691
 Noordegraaf, C. V. 1513, 9649
 Noordwijk, M. van 4991, 10039
 Noort, W. M. H. van 2341
 Nor, Y. M. 2726
 Nor-Azza, A. B. 6467
 Nørbaek, R. 7024
 Norcini, J. G. 5261
 Nordby, H. E. 6340
 Nordlund, D. A. 9044
 Norhashimah Abd. Hamid 5522
 Normah, M. N. 6467
 Norman, H. A. 1167, 1379, 9454
 Norman, J. M. 8416
 Norman, M. A. 235
 Norman, M. J. T. 7388
 Normand, F. 913, 2588, 8976
 Noro, S. 8315
 Norsiat Mohd. Ghazali 2683
 North, G. B. 5446
 Northcroft, K. 2513
 Northover, J. 2982
 Norton, J. D. 1807, 9041, 10198
 Norton, M. A. 2485
 Norton, S. A. 6254
 Nosal, K. 1932, 2860-2861, 7461, 7477
 Noschese, P. 9912
 Nose, A. 4377-4378
 Nosenzo, C. 5151
 Nosov, A. V. 5958-5959
 Nothnagel, E. A. 5275
 Notodimedjo, S. 2736, 7333
 Notte, E. la 311, 1257
 Nouchi, I. 9422
 Nougarede, A. 9384-9385
 Noupadja, P. 9931
 Nour-Eldin, S. 6607
 Nourai, A. H. 5783
 Noussier, N. I. 10449
 Novák, J. 9452, 9507
 Novak, J. 3526
 Novella, N. di 9754
 Novello, V. 271, 905, 1223, 3755
 Novikova, G. V. 5574, 5976
 Novoplansky, A. 8607
 Novy, R. G. 1197
 Nowacka, H. 8291
 Nowak, B. 2030
 Nowak, J. S. 8831
 Nowak, K. 2281
 Nowak-Polakowska, H. 5701
 Noyer, C. 911
 Nozzolillo, C. 7703
 Nzingane, B. M. 6860
 Ntupanyama, Y. 10054
 Nucci, R. 2651
 Nucifora, A. 1455
 Nuertey, B. N. 1838
 Nuessly, G. S. 1335, 2328
 Nuez, F. 6368
 Nugawela, A. 2738, 2743, 2745-2746, 9078, 9081, 10994, 10996
 Nugent, J. H. A. 5969
 Nukaya, A. 3286
 Numata, A. 5850
 Numata, K. 8561
 Nunes, J. 877
 Nunes, J. B. P. 1804
 Nunes, M. C. N. 10303
 Nuñez, M. 5097
 Núñez-Elisea, R. 4628
 Nurmuratov, T. N. 3790
 Nurrau, A. 6326
 Nurtika, N. 3235
 Nurzyński, J. 9590
 Nus, J. 2428
 Nuss, L. 5947
 Nussinovitch, A. 7514, 8127, 8696, 9618
 Nutsbidze, N. 9524
 Nuyim, T. 981
 Nwadu, P. O. 4963
 Nwogu, A. N. 9001
 Nwifo, M. I. 9009
 Nyaga, M. K. 6406
 Nyama, J. A. N. 9927
 Nyasulu, S. K. N. 10008
 Nybom, H. 4899, 5706
 Nyczepir, A. P. 2961
 Nyéki, J. 7389, 7538, 7549-7550, 8237, 9198, 9235, 9248, 9254, 9256
 Nyirenda, H. E. 2752, 9087
 Nyrop, J. P. 2427
 Nyujtó, F. 9257
 Oakford, M. J. 5621
 Oba, Y. 3604
 Obanda, M. 964, 2769, 4649
 Obara-Okeyo, P. 6836
 O'Barr, R. D. 5680
 Obata, H. 10364
 Obata, S. 395, 4971
 Obata, T. 4533
 Obdržálek, J. 7968
 Obenland, D. M. 7225
 Oberbarnscheidt, B. 9448
 Oberti, D. 8530
 Obeso, J. R. 10719
 Obiagwu, C. J. 10469
 Obiefuna, J. C. 9009
 Obiero, S. O. 7299
 Oblisamy, G. 1785
 Öborn, I. 8702
 Obregón, A. 6987
 Obreja, T. A. 4880, 5380, 8693
 O'Brien, I. E. W. 4792
 O'Brien, R. G. 367
 O'Brien, S. P. 2495, 10731
 O'Brien, T. A. 2424, 5210-5211
 O'Brien, T. P. 10346
 Obroucheva, N. V. 10497
 Obshatko, L. A. 5872
 Ocak, A. 6109
 Ocaña, A. 2241
 O'Carra, P. 7426
 Occelli, P. 1223
 Occhiogrosso, G. 1224
 Ochiai, M. 3489
 Ochoa, J. L. 6155
 Ochoa, M. 5480
 Ochoa de Cornelli, J. 8996
 Ocón, A. 4848
 Oda, M. 398, 4935, 5091, 5486, 9420, 10453
 Oda, Y. 537
 Odabas, F. 4916
 Odagiri, S. 6781
 Odah, K. 8620
 Odak, J. 963
 Oddiraju, V. G. 9810
 Odebo, A. C. 9036
 Odegard, W. 5035
 O'Dell, C. R. 4086
 Odiaka, N. I. 10469
 O'Donoghue, E. M. 10078
 Oechsle, P. 10182
 Oelrichs, P. B. 7191
 Oetiker, J. H. 4698
 Oetting, R. D. 4397, 7423
 Oeveren, J. C. van 5110, 9706
 Ofosu-Anim, J. 8429
 Ogaki, K. 4464-4465, 7158, 7162
 Ogale, V. K. 10642
 Ogašanić, D. 10178
 Ogasawara, N. 5182, 7881, 8822
 Ogasawara, S. 8772
 Ogasawara, T. 3511
 Ogasawara, Y. 4819, 5883
 Ogata, K. 1426
 Ogata, R. 636, 10643
 Ogata, T. 835, 4534, 5367, 5371-5372, 6344, 8482, 10854
 Ogawa, A. 390
 Ogawa, H. 2807
 Ogawa, J. M. 995
 Ogawa, K. 763, 7375
 Ogawa, R. 8539-8540, 10931
 Ogawa, Y. 1542-1543, 1596, 2754
 Ogier, J. P. 28
 Ogiso, M. 3159
 Ognjanov, V. 2966, 3852
 Ognyanov, I. 10765
 Ogrodovich, A. 8102
 Ogura, K. 774
 Ogura, N. 4614
 Oh, C. H. 734
 Oh, M. J. 10018
 Oh, S. H. 10300
 Oh ChangHwan 734
 Oh MiJoung 10018
 Oh SeHyun 10300
 Ohad, I. 7679
 O'Hagan, D. 2543-2544
 Ohana, O. 7112
 O'Hare, T. 4575
 O'Hare, T. J. 924, 2778
 Ohashi, H. 2515
 Ohba, H. 4560
 Ohba, R. 7002
 Ohe, C. 7162, 8026
 Ohemeng-Appiah, L. 3639
 Ohi, M. 251, 4892
 Ohkawa, K. 3286, 7898-7899, 8641
 Ohkawa, M. 3433
 Ohkubo, M. 3826
 Ohler, T. A. 6876
 Ohlrogge, J. B. 6522
 Ohmiya, A. 4806
 Ohnishi, M. 5876, 10457
 Ohnishi, T. 1633
 Ohnishi-Kameyama, M. 7002
 Ohno, M. 1701
 Ohr, H. D. 3579
 Ohra, J. 1465
 Ohzaki, K. 3360
 Ohshima, K. 11027
 Ohta, A. 562
 Ohta, D. 390
 Ohta, H. 4148, 4151, 5028, 5410, 5916, 8124, 9804
 Ohta, K. 621, 4650, 8663, 10647-10648
 Ohta, M. 7176, 9685
 Ohta, Y. 4844
 Ohya, I. 6104
 Ohya, N. 6447
 Ohyama, A. 536
 Oian, B. 1094
 Oikeh, S. 3276
 Oiyama, I. 9872
 Oja, V. 4111
 Oji, Y. 8563

- Oka, M. 8517
Oka, S. 2168
Oka, T. 3560
Okada, H. 2834, 6407, 10930
Okada, S. 5348
Okada, T. 6408, 10643
Okada, Y. 5874
Okagami, N. 8918
Okajima, Y. 3738
Okamoto, G. 2106, 8486, 9406, 9409
Okamoto, K. 8552
Okamoto, T. 8832
Okano, K. 4646, 7362
Okano, M. 6335
Okasha, A. K. 5732
Okawara, R. 6154
Okay, Y. 6075
Okazaki, Y. 5046
Okey, E. N. 6388
Okhrimenko, D. V. 4816
Okihara, K. 3541
Okimura, M. 2056
Okitsu, S. 2056
Okole, B. N. 8119
Okoro, J. 9001-9002, 9936
Oktay, M. 9563
Oku, H. 1407
Oku, M. 10399
Oku, T. 5957
Okubo, H. 5092, 8655
Okubo, K. 455
Okuda, H. 4521, 8962, 10854
Okuda, K. 455
Okuda, N. 4998, 9355
Okuda, T. 5516, 6684
Okudai, N. 9872
Okumura, K. 7720
Okuno, R. 8600
Okuno, T. 6252
Okur, B. 9563
Okur, N. 3865
Okuse, I. 4969, 8514, 8523, 8777
Okut, H. 9262
Okuyama, M. H. 7958
Oláh, L. 7493
Oláh, R. 2994, 6294
Olave, N. 5931
Olędzka, H. 761
Olesen, T. D. 935
Oleszek, W. 2176
Olgun, N. 10776
Olien, W. C. 2965, 4745
Olijnsma, T. W. 2343
Olinisky, I. A. 3516
Oliphant, J. L. 2510
Oliva, M. A. 5936
Olivari, C. 6802
Oliveira, D. de 5736
Oliveira, D. E. de 8924
Oliveira, E. 1805, 3660
Oliveira, E. de 8060-8061
Oliveira, F. de 5929, 7166
Oliveira, I. de 7166
Oliveira, J. 4902-4903
Oliveira, M. A. S. de 5542
Oliveira, M. do R. G. 9584
Oliveira, R. S. de 4949
Oliveira e Silva, S. de 9929
Olivera de los Santos, A. 10984
Olivetti, G. P. 5940
Olivier, J. M. 6980, 7856
Olkin, I. 5734
Olkowski, H. 7813
Olkowski, W. 7813
Ollat, N. 8485
Olley, C. M. 10730
Ollitrault, P. 2588
Oimos, E. 6330, 9892
Olorunda, A. O. 9939
Ol'shevekaya, L. V. 2531
Olson, D. G. 3027
Olson, D. L. 7423
Olson, J. 644
Olson, M. H. 3909
Olson, S. M. 1433-1434, 3261, 4204, 6913, 8670
Olson, W. 5687
Olson, W. H. 9323, 9330, 10257
Olsson, M. 1394
Olszewski, T. 3376, 6553
Olthof, T. H. A. 1539
Oluoch, M. O. 8142
Olympios, C. 908, 7804
Olympios, C. M. 416
Om, H. 464
O'Malley, K. J. 1731
Omara, S. I. 5054, 5104
Omasa, K. 7116
Omer, E. A. 6256, 8042, 8503
Ömeroğlu, M. 4961
Omiecińska, B. 4730
Omoto, T. 252
Omotude, C. T. 7798
Omran, M. A. 8625
Omura, M. 4513
Önal, M. K. 4850, 5222
Onano, V. 6326
Onay, A. 5681, 7545
Öncüler, C. 2307
Ondarza, R. N. 9033
O'Neill, S. P. T. 2470
Onelli, E. 437
Ong, C. K. 10039
Onisei, T. 5319
Onishi, M. 7116
Onkar Singh 6755
Ono, E. O. 4867, 10924
Ono, M. 1424
Ono, M. M. 4021
Ono, R. 1632
Ono, S. 5367, 5438, 8077
Ono, Y. 2928
Onoda, A. 10464
Ontivero, M. G. 5667
Onuoha, A. A. 7682
Onyekachi, C. N. 2713
Onyembe, P. M. L. 1025
Oo, K. C. 7344
Ooi, M. 8993
Ooishi, A. 1518
Ookata, K. 4148
Oosten, A. A. van 1190
Oosten, J. J. van 1462
Oosterbeek, B. 3533
Oosterhaven, K. 4797
Oosthuizen, J. 2018
Oosthuizen, J. H. 1747, 1749, 1754, 3614, 4539
Oosthuizen, W. G. 1746, 3613
Oosthuysen, S. A. 3676, 10951, 10959-10960, 10966, 10968, 10973
Oota, H. 6679
Ootake, Y. 2929, 3310
Ootani, Y. 820
Op den Camp, H. J. M. 2343, 3347-3349, 3351, 4268, 6064
Oparka, K. J. 7099
Opas, M. 7053
Opilé, W. R. 7292
Oppong, F. K. 1838
Opritov, V. A. 5908, 7739
Orczyk, W. 1390
Orden, S. 3724
Ordentlich, A. 4017
Ordovini, A. F. 5851
Orduño Cruz, A. 5162
Oren, Y. 3593
Orešek, E. 7495
Orfanedes, M. S. 3095
Organisation Européenne et Méditerranéenne pour la Protection des Plantes 10366
Organisation for Economic Co-operation and Development 2585
Orgaz, F. 5428
O'Rielly, L. 5621
Oriolani, J. A. 8468
Orlande, T. 7376
Orlandini, S. 1242, 3983, 7609, 7612, 10342
Orlikowska, T. 7100
Orlikowski, L. B. 3396
Orłowski, M. 331, 9488
Ormrod, D. P. 1376
Orona Moreno, J. D. 2734
Orona V., F. 7676
O'Rourke, J. 87, 6548
O'Rourke, M. 8724
Orozco, R. 3236, 8210
Orozco-Santos, M. 3665, 4609
Orsat, V. 1976
Orsot-Dessi, D. S. 1837
Ort, W. D. 2848
Ortega, R. G. 5995
Ortega Fleitas, O. 9824
Ortega Ponce d'León, L. M. 2380
Ortega Saénz, C. 289, 8475
Orth, U. 1057
Ortiz, A. 2236
Ortiz, E. 881
Ortiz, J. M. 1219, 4901
Ortiz, M. 6369
Ortiz, R. 1780, 2673, 3642, 3648, 9000-9002, 9936
Ortiz Hernández, Y. D. 2777
Ortuño, A. 1740, 2618, 5207
Os, E. A. van 4068, 5565
Osadchenko, I. M. 2828
Osaki, M. 10396
Osawa, T. 11027
Osborne, R. 8876
Oschmann, C. 3414
Osei-Bonsu, K. 1838
Oshida, M. 10897
Oshima, K. 7429, 7865
Os'kin, A. A. 10068
Osler, R. 4774
Osman, A. B. 2061-2062
Osman, G. Y. 4510
Osman, J. H. 974
Osman, M. 1772
Osman, M. E. 9577
Osman, S. F. 2124, 2311
Osmanov, A. P. 6503
Osmianski, J. 6716
Oso, B. A. 9036
Osores, V. M. 5078
Osteroth, H. J. 1910
Österreicher, J. 7481
Osteryoung, K. W. 3216
Östin, A. 1470
Ostmark, E. R. 5233
Ostrowska, K. 163, 8337, 9353
Ostrowski, J. 2886
Osuga, N. 9624
Oświecimski, W. 9149
Ota, M. 10812
Otero, A. 3544
Otero, A. R. 94
Otero, M. 9824
Othieno, C. O. 957
Otitolaye, O. O. 8045
Otsuji, K. 6138
Otsuki, H. 10464
Otsuki, K. 4093
Otten, L. 1220
Otterbacher, A. G. 2485
Otto, H. 9365
Ottosen, C. O. 688, 4275
Ou, S. K. 3966
Ou, X. J. 4374
Ou, Y. 4531
Ou, Y. R. 1854
Ou ShyiKuan 3966
Ou XiuJuan 4374
Ou YangRuo 1854
Ou Yi 4531
Ouammou, M. 10823
Ouazzani, N. 860
Ouchi, S. 248, 3944
Oud, J. L. 5053
Oude Vrielink, H. H. E. 4068
Ouellette, D. R. 5603
Oukabli, M. 3777
Oursel, A. 7131
Outlaw, W. H., Jr. 3205
Ouvrier, M. 9950
Ouwering, M. 3274
Ouyang, D. C. 36
Ouyang, J. 10839
Ouyang, R. 7233
Ouyang, X. Z. 4473
Ouyang, Y. 2604
Ouyang, Y. L. 8951
Ouyang Ruo 7233
Ouyang XueZhi 4473
Ouyang YuLing 8951
Ovando Cruz, M. E. 2734, 10826-10828
Ovečka, M. 5338
Overall, R. L. 5980
Overmeyer, S. 3375
Overstijns, A. 4272, 8190, 8725
Oviatt-Ham, M. 7108
Ovcharova, A. 5770
Owen, J. T. 707
Owen, M. D. K. 1581, 8745
Owen-Turner, J. 1865
Owuor, P. O. 964, 2769, 4649, 6452-6453
Oyama, N. 7496, 7917
Öz, F. 7463, 7518
Ozaki, Y. 833
Özakman, S. 4850
Ozanne, C. N. 3504
Ozawa, A. 1850
Ozawa, Y. 4688
Özbek, H. 6641
Özçağiran, R. 10193, 10219
Özcan, S. 6858, 6962
Özdemir, A. E. 147
Özdemir, E. 10294
Özdemir, F. 6244
Özdemir, N. 544
Özden, S. 6110, 8766
Ozeki, M. 8598
Özelkök, S. 7463
Özen, F. 9756
Özer, M. H. 171
Özer, N. 4961
Ozer, N. 6423, 6948, 7315
Ozeretskovskaya, O. L. 520
Ozga, J. A. 1401, 5982
Özhatay, N. 2400
Ozias-Akins, P. 2047
Özilgen, M. 136, 159
Ozkan, H. E. 5847
Özkarakaş, İ. 4850
Özkoç, İ. 694, 9756
Özkurt, A. S. 183
Ozolina, N. V. 10397
Ozores-Hampton, M. 10987
Özsezgin, E. 5222
Öztürk, C. 561
Öztürk, M. 6244
Özzambak, E. 1466
Paasialo, S. 5707
Pabion, M. 7843
Pace, L. B. 7377
Pachepsky, L. B. 4233-4234
Pacini, E. 2217, 3539, 4155, 5921, 8585
Pacini, L. 6507
Pacucci, G. 7025
Padalkar, R. K. 6214
Padem, H. 1294
Padhy, S. K. 9015
Padhya, M. A. 3538, 5337
Padma Sundari 6281
Padmaja, K. 4164
Padmajyothi, D. 2699
Padmanaban, G. 6743
Padmasree, K. 6865
Padmavathamma, K. 5007
Paek, K. Y. 1548, 3380, 6107, 6166, 8040-8041, 10629, 10704
Paek KeeYoeup 1548, 3380, 6107, 6166, 10629, 10704
Páez, A. 1609
Páez Redondo, A. R. 8149
Pagano, E. 10811
Pages, J. 5815
Pagès, L. 3874, 5507, 10001
Paglia, G. 5588, 5645, 6535
Pai, J. G. B. 4422
Pailly, O. 3000
Paine, D. H. 1260, 5949
Pais, M. S. 3403
Pais, M. S. 1559
Paiva, M. C. 8145
Paiva, W. O. de 7665
Pak, C. H. 4291, 9692
Pak ChunHo 4291, 9692
Pal, A. K. 6089, 7861
Pal, B. 9857
Pál, J. 8885
Pal, M. 615

- Pal, P. 4297
 Pal, R. 5354
 Pala, M. 160, 1730, 9269, 9530
 Palacios, G. 493, 8628
 Palacios Ruiz, E. 8475
 Palagi, M. 4276
 Palagos, B. 6717
 Palaniappan, G. R. 6894
 Palaniappan, R. 8121
 Palaniappan, S. P. 7990
 Palanisamy, K. 4589, 7281
 Palanisamy, P. T. 10777
 Palanisamy, V. 1028, 1823, 9625
 Palaniswamy, M. 6072
 Palazzo, A. J. 7036, 9722
 Palazzo, D. 4075
 Palchetti, C. 3983
 Paliwal, K. 9433, 9603
 Palladini, L. A. 9192
 Pałczyński, J. 338
 Palliotti, A. 211, 4551
 Palma, B. 7184
 Palma, L. de 1223, 3755, 8240
 Palma, T. 2317, 3731
 Palma Cruz, F. de J. 10767
 Palma de Villarreal, M. L. N. 1863
 Palmer, C. A. 2469
 Palminha, J. 518
 Palms, B. 1302
 Palni, L. M. S. 6457
 Palomares, A. 3659
 Palta, J. P. 5825
 Paludetti, G. 8439, 8442
 Palumbo, A. D. 747
 Palumbo, J. C. 2707, 9045-9046
 Pammenter, N. W. 1393
 Pampanna, Y. 1846, 11000
 Pan, C. L. 8931
 Pan, D. F. 7233
 Pan, G. S. 6458
 Pan, J. P. 8978
 Pan, L. 119, 10337
 Pan, L. N. 2996
 Pan, R. C. 1600-1604
 Pan, S. M. 8158
 Pan, Y. H. 10841
 Pan, Z. G. 2912
 Pan, Z. H. 9849
 Pan ChangLi 8931
 Pan DaFu 7233
 Pan GenSheng 6458
 Pan JiangPing 8978
 Pan LinNa 2996
 Pan RuiChi 1600-1604
 Pan ShuMei 8158
 Pan ZeHui 9849
 Pan ZengGuang 2912
 Panagiotopoulos, L. J. 502
 Panagopoulos, C. G. 1451, 3287
 Panaro, V. 5559, 6498
 Panavas, T. 5696
 Panayotov, Z. 6919
 Pancaldi, M. 6683
 Panda, J. M. 6830, 10576
 Pande, D. 5331
 Pande, Y. D. 4201
 Pandeliev, S. 6718
 Pandey, A. 8507
 Pandey, A. K. 3727
 Pandey, D. 2779, 10946, 11018
 Pandey, H. S. 7943
 Pandey, M. 1501, 8691, 10974
 Pandey, N. 8602
 Pandey, R. M. 9398
 Pandey, R. N. 4958
 Pandey, R. P. 8507
 Pandey, S. D. 10020
 Pandey, U. B. 4042
 Pandey, U. C. 4951, 4954
 Pandey, V. 2240, 2714
 Pandini, V. E. 6768
 Pandita, M. L. 510, 1283, 6924, 8604, 10521
 Pandita, V. K. 5126
 Pane, M. D. 4694
 Pancelo, M. S. 1300
 Panena, G. 2969
 Pang, C. M. 4331
 Pang, D. W. 7513
 Pang, H. M. 2755
 Pang, J. L. 4129
 Pang, X. F. 2598, 7206
 Pang ChangMin 4331
 Pang HuanMing 2755
 Pang JiLiang 4129
 Pang XiongFei 2598, 7206
 Pangkool, S. 972, 2775
 Pani, A. K. 4266
 Pani, B. K. 6983
 Panigai, L. 6696
 Panis, B. 4580
 Panizza, M. 3258, 8790
 Panji, T. 2684, 2729
 Pankasemsuk, T. 6466
 Pannelli, G. 2644
 Panno, M. 2665
 Panont, A. 3041, 3043
 Pansare, P. D. 9595
 Pant, B. 9851
 Pant, G. 10262
 Pant, N. 6624
 Pant-Joshi, G. 10202
 Pantanali, R. 1261
 Pantezzi, T. 83
 Pantoja, A. 1802
 Pannuccio, M. R. 6957, 9621
 Panwar, K. S. 10905
 Panwar, S. K. 874
 Panwels, E. 8332
 Paola, M. L. di 9527
 Paolacci, A. R. 2238
 Paoletti, M. G. 1020
 Paoletti, S. 5352
 Paotha, C. P. 6624
 Paoli, D. de 5287
 Paoli, N. 1959
 Pap, L. 7484
 Papa, G. 569-570
 Papadakis, G. 5567
 Papadopoulos, A. 8755
 Papadopoulos, A. P. 3277
 Papadopoulos, F. 8755
 Papadoulou, E. 8757, 10622
 Papadoulou, P. 542, 841
 Papafotiou, M. 10717
 Papageorgiou, V. P. 2524
 Papanikolaou, D. 2576
 Papanna, Y. 10999
 Papdimitriou, M. D. 8664
 Papić, V. 1130
 Papić, V. M. 10178
 Papp, J. 2826, 8282-8283
 Parada, F. 8172
 Paradellis, C. 2228
 Paradis, L. R. 1054
 Paradowski, M. 1447
 Parameswaran, M. 4064
 Parameswaran, T. N. 2528, 6245
 Paranjothy, K. 7225
 Parashar, K. K. 8917
 Paraskevopoulou-Paroussi, G. 256, 542, 8427
 Parcevaux, S. de 8684
 Parchomchuk, P. 1956, 2877, 2885
 Pardini, A. 3968
 Pardo, A. 7773
 Pardo, A. 5566, 5941
 Pareek, O. P. 965
 Pareek, S. K. 10797
 Parejo, J. 7604
 Parena, S. 5758, 6713, 8461
 Parent, L. E. 2133-2134, 6233
 Pares, S. 3221
 Parfitt, D. E. 64, 2984
 Parhi, G. 3166
 Paria, N. C. 6956, 8703
 Parida, G. N. 9008
 Parihar, N. S. 9565
 Paris, H. S. 5012
 Paris, N. 9542
 Parish, M. 7227
 Parish, R. 906
 Parish, R. L. 3470, 4357, 7701
 Parisot, E. 10216
 Park, C. H. 8040-8041, 10782
 Park, C. K. 2262
 Park, D. K. 10935
 Park, D. Y. 2158
 Park, H. 9638
 Park, H. G. 1279
 Park, H. K. 9852
 Park, H. S. 858, 1538, 6723
 Park, H. Y. 2218
 Park, I. H. 10659
 Park, J. K. 10645
 Park, J. M. 95, 10148
 Park, J. S. 10655
 Park, K. K. 8079-8080
 Park, K. W. 1328, 1646, 6172, 10445, 10935
 Park, K. Y. 10779
 Park, M. E. 3435, 9221
 Park, M. K. 10749
 Park, M. S. 9852
 Park, N. B. 645
 Park, N. K. 9374, 9615
 Park, P. K. 8079
 Park, S. D. 2805, 2805, 3179, 3179, 8992, 8992
 Park, S. H. 6742, 10157
 Park, S. I. 8040-8041
 Park, S. J. 7780
 Park, S. M. 735
 Park, S. W. 554
 Park, S. Y. 1217
 Park, T. D. 6785
 Park, T. Y. 7715
 Park, W. M. 695
 Park, Y. 554
 Park, Y. G. 3126
 Park, Y. I. 445, 5057, 6864, 6866, 8608-8609
 Park, Y. J. 10780
 Park, Y. S. 858, 10275, 10864, 10879
 Park ChangKie 2262
 Park ChungHeon 10782
 Park DaeYoung 2158
 Park DongKum 10935
 Park HanYoung 2218
 Park HeungSub 858
 Park HoKi 9852
 Park HwaSung 1538
 Park HyoGuen 1279
 Park Hyun 9638
 Park InHwan 10659
 Park JaeSeong 10655
 Park JinMyeon 95
 Park JungKi 10645
 Park KuenWoo 10935
 Park KwangWoo 6172
 Park KyeongYeol 10779
 Park MiKyung 10749
 Park MooEon 3435, 9221
 Park MoonSoo 9852
 Park NamKyu 9374, 9615
 Park NouBog 645
 Park SangHyun 6742
 Park SeokHee 10157
 Park SeWon 554
 Park SoDeuk 2805, 8992
 Park SunDo 2805, 8992
 Park SungMin 735
 Park TaiYoung 7715
 Park Yong 554
 Park YongJin 10780
 Park YongSeo 858, 10275, 10864, 10879
 Park YounIl 6864, 6866, 8609
 Parker, G. C. 7702
 Parker, M. L. 1079, 4726, 4768, 9287
 Parker, N. 5297
 Parker, R. 161, 8804
 Parkerson, C. H. 5280
 Parkes, S. L. 10682
 Parkin, E. T. 556
 Parlatti, M. V. 1762, 2652
 Parletta, M. 9793
 Parman, S. H. 7344
 Parmar, B. S. 4448
 Parmenter, G. A. 8037, 8919
 Parnell, J. A. N. 7380
 Parnutat, C. 5807
 Paro, M. 821
 Parola, F. 1994
 Paroussis, E. 2991, 8427
 Parra, P. 8440
 Parra Quezada, R. A. 1941
 Parrish, M. 10532
 Parry, D. L. 5347
 Parry, M. A. J. 8595, 10494
 Parshad, V. R. 3061
 Partap, R. 8489
 Partha Chattopadhyay 5354
 Parthasarathy, M. V. 5119
 Parthasarathy, U. 9666
 Parthasarathy, V. A. 3429, 4371, 4382, 4437, 7939, 9666, 9846, 9880
 Parvin Noor 3073, 3326
 Parys, E. 9539
 Pasberg Gauh, C. 9002
 Pascale, S. de 2285-2286, 3077
 Paschold, P. J. 9543, 9626
 Pascual, B. 503
 Pascual, S. 1452, 6018
 Pasetti, L. 2355
 Pasini, F. 3749
 Pasqua, G. 2570
 Pasqual, M. 5705, 7608, 7655, 8258, 8453, 8943
 Pasquale, R. de 764
 Pasquier, D. 286, 1245, 7622-7623
 Passam, H. C. 416
 Passioura, J. B. 7816
 Passos, L. R. S. 10307
 Passreiter, C. M. 5333
 Pasternak, D. 3266
 Pasternak, H. 6948
 Pastor, J. J. 5996, 8626
 Pastor, M. 7242, 8096, 8983
 Paswan, L. 663, 10644
 Pat, M. L. 9021
 Patch, D. 1877, 2462
 Pate, J. S. 7980
 Patel, B. G. 1275
 Patel, B. K. 5869
 Patel, C. S. 6732
 Patel, D. J. 7992
 Patel, D. R. 9858
 Patel, H. V. 7992
 Patel, J. A. 5869
 Patel, J. S. 5869
 Patel, N. L. 717
 Patel, S. K. 7992
 Patel, Y. R. 2715
 Patel, Z. G. 7667
 Patel, Z. N. 9914
 Paterniani, T. 4276, 4361
 Paternotte, E. 2012, 2904
 Paterson, J. W. 4186
 Paterson, R. T. 8052
 Patetta, A. 3373
 Pathak, A. C. 4492
 Pathak, B. 2267
 Pathak, C. P. 6624
 Pathak, D. V. 2227
 Pathak, M. G. 7140
 Pathak, P. 7935
 Pathak, R. K. 2779, 9050, 9957, 10020, 10938, 10940, 11018
 Pathirathna, L. S. S. 2743
 Pathmanaban, G. 6524
 Patil, A. A. 7006-7007, 7874
 Patil, B. S. 4047, 10383
 Patil, J. J. 7905
 Patil, J. L. 7994
 Patil, M. T. 3493, 9714
 Patil, P. 7793
 Patil, P. B. 8994
 Patil, P. L. 7905, 9444, 9715
 Patil, R. V. 10661
 Patil, S. R. 2381-2382, 3154, 3390
 Patil, V. K. 3630, 9914
 Patil, V. S. 9477, 10970
 Patiram 7998
 Patjoshi, A. K. 5070
 Patnaik, A. 9495
 Patnaik, H. P. 4104
 Patnaik, J. 6284
 Patnaik, P. R. 7999, 8893
 Patočka, K. 5741
 Paton, J. E. 1743
 Patra, A. K. 6983
 Patra, D. 5343, 8013-8014
 Patrick, J. W. 541, 5124, 5961, 6854, 8589

- Patrignani, G. 437
 Patt, J. M. 7885
 Pattanshetty, H. V. 6260
 Pattar, G. L. 2722
 Patten, K. 236, 8415, 9351
 Patten, K. D. 235
 Patterson, K. J. 2995
 Patterson, M. 1930
 Patumi, M. 2651, 6360
 Patwardhan, M. V. 3603
 Patyal, S. K. 3338
 Paul, A. 819
 Paul, J. L. 7961
 Paul, M. 8672
 Paul, S. R. 10520
 Paul, T. M. 2532, 4853
 Paula, S. V. de 6843
 Paula Herrmann, P. S. de 1484
 Paulin, J. P. 1086
 Paull, R. E. 2718, 6384, 9064, 10909
 Pauls, K. P. 3501
 Paunova, S. 6845
 Paunović, A. S. 1175
 Paunović, S. A. 1175
 Pautre, L. 5115
 Pauwels, E. 5639
 Pavan, F. 1094
 Pavan, M. A. 9030, 10844, 10925
 Pavlou, I. 313
 Paw U, K. T. 5691
 Pawar, S. K. 873
 Pawlak, M. 8228
 Pawłowicz, P. 54
 Paxton, R. J. 9016
 Paydaş, S. 9233, 9260
 Payette, S. 7587
 Payne, F. A. 4876
 Payne, W. H. 6239, 9797, 9812
 Pazzi, G. 3968
 Pchelintsev, A. S. 8248
 Peacock, C. H. 3720
 Peacock, D. N. 6661
 Peak, K. Y. 6112
 Peak KeeYoeup 6112
 Peano, C. 181, 1994
 Pearson, C. J. 7388
 Pearson, R. C. 281, 1243
 Pearson, S. 1262
 Pearson, T. 10247
 Pech, J. C. 7824
 Peck, S. C. 447
 Pecknold, P. C. 2856
 Peckover, R. 5229-5230, 7043
 Pedersen, B. A. 10117
 Pedersen, H. B. 3558, 7151
 Pedersén, M. 4470, 10807
 Pederson, J. R. 1230
 Pedreño, M. A. 1419, 8913
 Pédro, G. 5498
 Pedro Júnior, M. J. 10320
 Pedryc, A. 10187
 Pee, K. C. 4178
 Peer, A. van 3451
 Peerally, A. 10591
 Peet, M. M. 7821
 Peetambar Dahal 9576
 Peeters, J. 10136
 Pegg, K. 4572, 4575
 Pegg, K. G. 4477, 6513
 Pei, X. B. 4080
 Pei XiaoBo 4080
 Peiris, C. N. 10771
 Peiris, K. H. S. 6052
 Peiris, T. S. G. 896
 Peisker, M. 3417
 Peixoto, J. R. 7771
 Peixoto, P. H. P. 7608, 8453
 Pekárik, Š. 10309
 Pekker, Y. 7501
 Pekmezci, M. 5403, 5442
 Pelayo, C. 9115
 Pélissier, Y. 6060, 8034
 Pelleccuer, J. 3996
 Pellegrino, S. 181
 Pellerin, P. 6716
 Pellerin, R. 4402
 Pelletier, J. 2109
 Pellett, N. E. 2372
 Pelliconi, F. 2993
 Pellon, G. 3340
 Pelosi, R. R. 1727
 Peloso, M. J. del 5929
 Pelusio, F. 2365
 Peluzio, J. M. 7817
 Pemberton, H. B. 6198
 Peña, J. E. 1733
 Peña, M. A. 4626
 Peña-Cortés, H. 5118
 Peña-Martínez, M. R. 5999
 Peñalosa, J. M. 2229
 Penel, C. 10475
 Peng, C. L. 936
 Peng, F. Y. 10012
 Peng, G. Y. 2114, 8711
 Peng, J. X. 10402
 Peng, L. X. 8802
 Peng, S. K. 7206
 Peng, Y. B. 3067, 3961-3962
 Peng, Y. F. 2637
 Peng, Y. H. 9886, 10266
 Peng, Z. P. 1826
 Peng ChangLian 936
 Peng FuYuan 10012
 Peng GenYuan 2114, 8711
 Peng JianXin 10402
 Peng LiXin 8802
 Peng ShiKuang 7206
 Peng YeFang 2637
 Peng YiBen 3067, 3961-3962
 Peng ZhiPing 1826
 Penkov, M. 6752
 Pennacchio, F. 2899
 Pennypacker, S. P. 9672
 Penot, E. 2744
 Penrose, L. J. 1089, 2829, 8286
 Peñuelas, J. 1912, 2277, 3237, 4243
 Peper, K. 3474
 Peper, P. J. 6183
 Pépin, R. 3212, 10508
 Peppel, A. C. van de 9696
 Pappelenbos, H. W. 3736, 10072
 Peppiitt, S. D. 8333
 Perala, C. 643
 Percival, G. 2461, 7073
 Percy, A. E. 4792
 Perdetzoglou, D. 8927
 Perdiguero, S. 5432, 8105
 Paredi, A. 10360
 Perego, S. 9312
 Pereira, A. M. S. 3547, 3551, 5341
 Pereira, F. M. 914
 Pereira, J. R. 1816, 8143
 Pereira, P. R. G. 7185-7186, 7805, 8532
 Pereira, P. S. 5341
 Pereira-Lorenzo, S. 6604-6605, 10196
 Perepelitsa, A. P. 1952
 Peretz, J. 2838
 Perez, A. 1765
 Pérez, C. 5658
 Pérez, D. 10880
 Pérez, J. A. 5640
 Pérez, M. L. 1740
 Pérez, O. 7302
 Pérez, P. 2280
 Pérez, R. 6314, 7214, 8074
 Perez, R. 3322, 3557
 Pérez-Alfocea, F. 6007, 8689, 10561
 Pérez-Amador, M. C. 5340
 Pérez-Bustamante, J. A. 9376
 Pérez-Camacho, F. 6483, 6689, 9411
 Pérez-Enríquez, R. 10808
 Pérez-Francés, J. F. 6282
 Pérez-García, F. 2329
 Pérez-López, A. 1715, 10949
 Pérez Marín, J. L. 289, 291, 8475
 Pérez Olvera, M. A. 726
 Pérez-Villarreal, A. 7561
 Pérez-Zamora, O. 3665, 4609
 Perfecto, I. 10923
 Perić, P. 7486
 Perino, A. 3976
 Perkins, A. J. 702, 7066
 Perkins, L. B. 1054
 Perkins, R. E. 10844
 Perkins-Veazie, P. 3947, 4875, 4879, 6656
 Perkins-Veazie, P. M. 9958
 Perko, J. 6952
 Permadi, A. H. 5830
 Permezny, K. 10552
 Perny, B. 716
 Péros, J. P. 1222
 Perret, P. 3050
 Perri, E. 2652
 Perri, L. 3623
 Perrin, P. S. 1500
 Perriot, J. J. 10926
 Perron, G. 8352
 Perroud, P. F. 5841
 Perry, K. B. 1409, 5924
 Perry, L. P. 6082
 Perry, N. B. 10766
 Perry, R. 4750
 Perry, R. L. 94, 100, 1938, 1947, 9162, 9177
 Persley, D. 5529
 Pertoldi Marletta, G. 7851
 Pertwee, J. 6475
 Perucka, I. 7778
 Peruzzi, G. 2641
 Peruzzo, E. L. 4913, 6651
 Pervykh, L. N. 5394
 Perwez, M. S. 5195
 Peshney, N. L. 829
 Pešić, M. 7548
 Pesis, E. 815, 5127, 9058
 Pešlová, H. 1122
 Pessione, E. 569-570
 Pessoa, H. B. S. da V. 4117
 Pessoa, H. B. S. V. 3191, 3309
 Pestelli, P. 6687
 Pétel, G. 4835
 Peter, K. V. 2517
 Peterlunger, E. 8445
 Petermair, J. 4717, 7481
 Peters, A. M. 4293
 Peters, B. 3715, 8198
 Peters, R. 5827
 Peters, R. J. 5828
 Petersen, A. 1113
 Petersen, J. F. W. 573
 Petersen, K. K. 4227
 Petersen, O. V. 7517
 Petersen, R. G. 1866
 Peterson, C. M. 730
 Peterson, D. L. 10147, 10284
 Peterson, G. L. 603
 Peterson, L. A. 7574
 Peterson, R. 4572
 Peterson, R. L. 2449
 Pétiard, V. 2698, 4602
 Petit, S. 9732
 Petiitt, F. L. 477
 Petracek, P. D. 4245, 4527
 Petropoulou, Y. 5289
 Petrova, S. 10428-10429
 Petrović, N. 2966
 Petruschke, M. 2024
 Petrusa, E. 2249
 Petry, C. 6504
 Petsas, S. 909
 Petsas, S. I. 9574
 Petzoldt, C. H. 3095
 Pevzner, D. 5853
 Peyron, L. 3532
 Pezzuto, A. 7025
 Pezzuto, J. M. 4472
 Pfammatter, W. 1110
 Pfander, H. 5305
 Pfannhauser, W. 2070
 Pfeffer, P. E. 2124
 Pfister, M. 2572
 Pfizenmaier, K. 5223
 Pflieger, T. G. 439
 Pfohl-Leszkowicz, A. 3536
 Phan-Huy, S. A. 6922
 Pharis, R. P. 9528
 Pharr, D. M. 1488, 3320, 8225
 Phelps, K. 1339, 3315, 5008
 Phene, R. C. 2035
 Philip, B. 6076
 Philipose Joshua 1561
 Philippe, R. 7290
 Philippoussis, A. 3364
 Philis, J. 1146
 Philley, H. W. 4342
 Phillips, D. R. 8336
 Phillips, G. C. 5816
 Phillips, J. R. 551
 Phillips, L. G. 776-777
 Phillips, P. 9365
 Phillips, P. A. 8072, 8935
 Philosoph-Hadas, S. 6086, 6257, 6266
 Phinney, A. J. 5923
 Phogat, B. S. 7182
 Phookan, D. B. 10538
 Phor, S. K. 4951
 Phuong, D. D. T. 5894-5895
 Phuse, A. P. 2720
 Piacquadio, P. 9404
 Piagnani, C. 9218
 Pianezola, A. 4883, 9298
 Piątkowski, J. 7814
 Piątkowski, M. 6553
 Piazza, R. 6879
 Picard, M. A. 1481
 Picart, J. L. 6202
 Piccarolo, P. 8798
 Picchi, M. 10342
 Picchioni, G. A. 6582
 Picci, V. 6345
 Piccioni, E. 630, 647, 2811
 Piccoli, P. J. 6651
 Piccolo, A. 9912
 Pich, A. 5113
 Piché, Y. 2059, 10501
 Pichersky, E. 611
 Pickel, C. 250, 9167, 9191, 9323, 9330, 9365
 Pickett, J. A. 7144
 Picó, Y. 2612, 5388
 Picuno, P. 40
 Piemontese, S. 3968
 Pieńkowska, H. 1688
 Pieri, P. 6692
 Pierik, R. L. M. 5270-5271
 Pieroni, A. 9911
 Pieroni, M. 6239
 Pierot, S. W. 5534
 Piet, D. P. 359
 Pięta, D. 1380
 Pieters, J. G. 1043, 9138
 Pietrini, F. 91
 Pietrosiuk, A. 761
 Piga, A. 7228-7229, 8967
 Pignon, P. 6908
 Pijlen, J. G. van 6008, 8653
 Pike, L. M. 4047
 Pikounis, B. 1092
 Pilarski, J. 3484, 7082
 Pilatti, R. A. 4214
 Pilbeam, J. 1867
 Pilch, B. 2247
 Pilipenko, N. N. 2075
 Pilipyuk, V. I. 5777
 Pill, W. G. 491-492, 5183, 7909
 Pillai, P. 1167, 1379
 Pillai, R. R. 10762
 Pilon, M. 448
 Pilone, N. 5424
 Pimenta, M. C. 6264
 Pimentel-Gomes, F. 9052
 Pimienta-Barrios, E. 2666
 Pimpini, F. 4981
 Pina, J. A. 3591
 Pinamonti, F. 2870
 Pinc, M. 7968
 Pindel, A. 3449, 8820
 Pindel, Z. 7900, 7916, 7950, 8820
 Pinedo, J. M. 7637
 Pinetti, A. 10603
 Pinheiro, C. U. B. 773
 Pinho, S. Z. de 4867, 10924
 Pinilla C., B. 223
 Pinilla D., C. 4927
 Pinker, I. 4432
 Pinna, M. 8634
 Pino, J. A. 8085
 Pino, M. de los A. 3255, 3263
 Pinochet, J. 1132, 5657, 6931
 Pinto, C. A. B. P. 8750
 Pinto, E. 9204

- Pinto, J. E. B. P. 8750
 Pinto, J. M. 1816, 8143
 Pinto, M. 10492
 Pinto, M. C. de 8913
 Pinton, R. 5665
 Pinzaru, G. 8907
 Pioli, R. 1300
 Piquer, J. 3591
 Piqueras, A. 6330, 9892
 Pirazzini, P. 1176, 3848, 4808
 Pires, E. J. P. 10307
 Pires, R. 5929
 Piretti, M. V. 5627
 Pirisi, F. M. 5387, 8956
 Pirlak, L. 9238
 Pisanelli, A. 6251
 Piscaglia, R. 1889
 Pisi, A. 585
 Piskornik, M. 659
 Piskornik, Z. 608-609, 659, 9271, 10200, 10716
 Piskula, M. 6798
 Pistocchi, R. 3316
 Pistorius, E. K. 4972
 Pistre, R. 2101, 2104, 4905
 Pita, J. M. 1493, 2329
 Pitako, D. 9208
 Pitsioudis, F. 229, 10280
 Pivec, V. 6253
 Pivert, J. M. le 3383
 Pivot, D. 6930
 Pivovarov, V. F. 5788
 Pizzi, M. 3749
 Plá, F. 2625, 8966
 Planas, R. 4917
 Planchet, P. 2996
 Planchon, V. 1970
 Planes, J. 10091
 Plank-Schumacher, K. 3213
 Planton, G. 6585, 7831, 9158, 10194
 Plas, C. H. van der 339
 Plas, L. H. W. van der 651, 6131
 Plaut, Z. 4209, 8120
 Plaxton, W. C. 2679
 Plaza, J. de la 9121
 Plaza, J. L. de la 813-814, 818, 3342, 10074
 Plazinić, R. M. 10178
 Pleijssier, K. 6586
 Plenchette, C. 4574
 Pless, C. D. 116
 Plessis, D. du 5613
 Plessis, S. du 5932
 Plessis, S. F. du 4500
 Plestenjak, A. 7504, 7508, 9208, 9917
 Plich, H. 2068, 8386
 Pliego-Alfaro, F. 2581, 7322, 7328
 Plietzsch, A. 5291
 Plíšek, B. 2914
 Pliva, J. 6824
 Plocharski, W. 8310, 9210
 Ploetz, R. C. 5523
 Plooy, C. P. du 788
 Plummer, J. A. 217, 594
 Pluta, S. 6649
 Pna, R. C. 5256
 Pna RuiChi 5256
 Pochi, D. 8981-8982
 Podestá, F. E. 6055
 Podoprigora, A. Y. 10476
 Podwyszynska, M. 3376
 Poeloengang, Z. 9987
 Poffley, M. 2719
 Pogosyan, K. S. 5744
 Pohlan, J. 2735
 Pohlmann, J. M. 3715
 Poiana, M. 4849, 8053
 Poissonnier, J. 8705
 Pol, P. A. van de 1631, 5270-5271, 7094
 Pol, P. S. 4134
 Pola, A. C. 4783
 Polat, A. 9242, 10183
 Polderdijk, A. A. 9155
 Polderdijk, K. K. 10573
 Polero, H. J. 10267
 Poleschchuk, S. V. 2291
 Poli, F. 4449
 Poli, M. 3840, 3845
 Poli, R. C. D. 1523
 Policarpo, M. 3834
 Polimeni, C. 570
 Polisetty, R. 7793
 Polito, V. S. 9316
 Polizzi, G. 476, 516, 5285, 7967
 Polk, D. F. 2962
 Polking, G. F. 4246
 Poll, J. T. K. 1403, 3225, 4070, 5061, 10511, 10514
 Poll, L. 9201
 Pollák, I. 9452
 Pollastro, S. 1229
 Pollini, A. 3749
 Pollock, J. 6310
 Pollock, K. M. 15
 Polovinkin, A. V. 7739
 Polreang, S. 3839
 Polverino de Laureto, P. 5080
 Polya, G. M. 4312
 Polyák, D. 7638
 Polyák, K. 9617
 Polyakova, L. I. 7760
 Pomares, F. 8428
 Pomathios, L. 6405
 Pomianowska, E. 770
 Pommer, C. V. 10307, 10320
 Pomper, K. W. 5737
 Pompei, V. 1762
 Ponder, F., Jr. 10258
 Ponder, H. G. 707
 Poni, S. 307, 6702
 Ponican, J. 1388
 Poniedziałek, M. 10378, 10489
 Poniedziałek, W. 1932, 2860-2861, 7453, 7461, 10103
 Ponnuswamy, K. 5472
 Ponomarenko, V. V. 7407
 Pons, J. 7217
 Ponti, I. 3749, 5661, 7640, 9295, 9302
 Pontoppidan, A. 996
 Ponzio, C. 3621
 Pool, R. M. 1233
 Poole, A. P. 9351
 Poon, Y. T. 10791
 Poonam Dhawan 5069
 Pop, I. V. 1531
 Popay, A. J. 20
 Popescu, A. N. 3938
 Popov, A. I. 2565
 Popov, A. S. 7589
 Popov, E. G. 5872
 Popov, F. A. 4254
 Popov, V. A. 8252
 Popova, A. V. 6868
 Popova, E. V. 8576
 Popova, T. N. 10476
 Poppe, J. A. 2334
 Porat, R. 1550, 2397, 6179, 7063, 9675, 10713
 Porębski, S. 1932, 2860-2861, 7453, 7461, 10103
 Poremski, S. 9735-9736
 Porporato, M. 8634
 Porras, I. 1740
 Porras Castillo, I. 2618
 Porro, A. D. 1253
 Porro, D. 2876, 2884, 3042, 3861, 3974, 9387
 Portas, C. A. M. 8554, 9584
 Portas, C. M. 5801
 Porter, D. W. 2422
 Porter, G. 446
 Porter, W. C. 1522, 3470, 6085
 Portier, K. 543, 6951
 Porting, P. 8874
 Porto, O. de M. 7207
 Portrat, K. 4835
 Portugal, D. 1609
 Porzel, A. 4239
 Poshiya, V. K. 7949
 Pospíšilová, D. 7611, 10321
 Pospíšilová, J. 10616
 Post, W. H. K. 10419
 Post-Beittenmiller, D. 4028, 5794, 9436
 Postma, E. 631
 Postorino, S. 4849
 Potgieter, J. 2664
 Pothen, J. 4638, 4640, 9071, 9073, 9075
 Potjewijd, R. 7227
 Potter, R. 3
 Potter, T. L. 8319
 Potter, T. S. 8586
 Potty, S. N. 9071, 9073, 10992
 Potus, J. 152
 Poudel, D. D. 4006
 Pouet, Y. 775
 Poulin, M. J. 2059
 Poulouvassilis, A. 7733
 Pound, W. 6144-6146, 6151
 Pour, M. 7496
 Pourtchev, P. 1248
 Poutaraut, A. 5336
 Powell, A. 1877
 Powell, A. A. 5088
 Powell, C. A. 1476
 Powell, C. C. 1868
 Powell, G. L. 6997
 Powell, N. 6312
 Power, K. 8810-8811, 9724-9726, 9728
 Powtongsook, S. 778
 Prabha, T. N. 8637
 Prabhakar, A. S. N. 8719
 Prabhakar, M. 10435, 10660
 Prabhakar Singh 9902
 Prachuabmoh, O. 8070
 Pradedova, E. V. 10397
 Pradeep, K. P. 7274, 8715
 Pradel, B. 7948
 Prado, H. L. 42
 Prado, R. de 7243-7245
 Prakasam, V. 4637
 Prakash, N. 8616
 Prakash, N. A. 3734
 Prakash, N. S. 2699
 Prakash, S. 2136
 Prakash Patil 7793
 Pralya, I. I. 2892
 Pramanik, S. 9859
 Pranjal Borah 1664
 Prantl, K. 7385
 Prasad, A. 8013
 Prasad, A. R. K. 4164
 Prasad, D. 4198
 Prasad, J. S. 4582
 Prasad, M. 3174
 Prasad, M. N. V. 4682
 Prasad, N. B. L. 6392
 Prasad, N. K. 8691, 10974
 Prasad, P. R. 2732
 Prasad, S. 4576
 Prasad, T. G. 9602
 Prasad, U. S. 9981
 Prasada Rao, G. S. L. H. V. 897, 1790
 Prasanna Mohanty 5238
 Prat, S. 5118
 Pratella, G. C. 1165, 1179, 1989, 3813, 3883, 3916, 7507, 7524, 8316, 9223
 Prathibha, N. C. 5074
 Pratt, K. 4409
 Prawoto, A. A. 9934
 Predieri, S. 1160, 1167
 Preece, J. E. 2033
 Preer, J. R. 325, 2113
 Preeti Jain 5005
 Preininger, É. 6045
 Preisinger, H. 877
 Prema, T. P. 7819
 Premakumari, D. 9067
 Principe, N. 905
 Prencić, R. 8350
 Presa-Owens, C. de la 2074
 Press, M. C. 6013, 6142
 Pressey, R. 4247, 10496
 Pressman, E. 1448, 9589
 Préstamo, G. 7786
 Pretorius, J. 4333
 Prevedello, B. M. S. 9491
 Prevost, G. 2646
 Prévost, J. 2152, 8524
 Prévôt, J. C. 937, 947, 3683, 5508-5509, 10998
 Preziosi, P. 2644
 Price, J. F. 1213
 Price, R. L. 5445
 Price, S. F. 9396
 Priddle, R. 4541
 Pridgeon, A. M. 4370
 Priem, B. 6654
 Priest, M. J. 604
 Prieur, C. 6716
 Primo-Millo, E. 5384, 8062, 8963
 Primo Yufera, E. 7203
 Primus, T. M. 5711
 Prinoth, H. 3760, 6531, 8232
 Prins, H. B. A. 2250
 Printz, P. 9147
 Prior, B. 10330
 Priore, V. 1763
 Prishchepa, L. I. 3144
 Pritchard, H. W. 9923
 Prithiviraj, B. 3213
 Pritts, M. P. 3922, 7570
 Privé, J. P. 5617
 Privitera, R. 8648
 Priya, D. 2503
 Priya, E. J. S. 6762
 Priya Rani 10943
 Priya Sethu, K. M. 8637
 Probasco, P. R. 551
 Probert, R. J. 4459
 Procházka, S. 5919
 Procida, G. 7851
 Proctor, J. T. A. 8407
 Produit, V. 1427
 Proebsting, E. L. 1077
 Proft, M. de 442, 5789
 Proft, M. P. de 3123, 5845
 Progrès Agricole et Viticole 8454, 8472
 Prohens, J. 6368
 Proietti, P. 862, 7249, 8986, 10882
 Prokopy, R. J. 118, 8297
 Promila Gupta 8915
 Promila Pathak 7935
 Pronk, A. A. 3476
 Prost, M. C. 2005
 Protoyeraki, E. 7733
 Provorchenko, A. V. 1952, 2981
 Providenti, R. 5890
 Prusky, D. 1765, 3579
 Pruvost, O. 10956
 Przestalski, S. 6850
 Przybylska, J. 3194, 5951
 Pszczółkowski T., P. 7614
 Ptasznik, W. 2800
 Pua, E. C. 7716
 Pua EngChong 7716
 Pucci, S. 177
 Puchades, R. 7203
 Pudelski, T. 9148
 Puech, S. 10802
 Pugh, C. E. 3132
 Pugliarello, M. C. 6802
 Puiatti, M. 3086
 Puig, L. 5679, 8371
 Puigdomenech, P. 4082
 Pujos, A. 6928
 Pulford, I. D. 8027
 Pulford, W. M. 191
 Pulgar, G. 9039
 Pulgarin, A. 10387
 Pulvirenti, S. 3721
 Punekar, L. K. 9866
 Punja, Z. K. 3311, 5139
 Punnaiah, K. C. 5465
 Punnoose, K. I. 9075
 Puntarulo, S. 7864
 Pupulin, F. 706, 7060
 Purcell, A. H. 2936
 Purcell, M. F. 917
 Purohit, A. N. 824
 Purohit, M. 5331, 7169
 Purohit, S. D. 8035
 Purvis, A. C. 479, 5039
 Puschel, A. K. 5265
 Pushpadas, M. V. 4641
 Pushpalatha, P. B. 6386, 9014
 Pushpangadan, P. 6169, 8905
 Pushparajah, E. 3637, 6440, 7261
 Pusino, A. 866
 Puskülcü, G. 863, 8100

- Pusterla, M. 3426
 Pustovoitova, T. N. 9324
 Put, H. M. C. 9791
 Putterbaugh, M. N. 7111
 Putter, H. de 10162, 10166
 Puttoo, B. L. 10123
 Pütz, N. 6136
 Puxbaum, H. 295
 Puy, B. du 8170
 Puy, D. J. du 10703
 Pyatygin, S. S. 5908, 7739
 Pyke, N. B. 191, 8399
 Qadry, J. S. 10834
 Qaiser, M. 8227
 Qamar, F. 2597
 Qasem, J. R. 1266, 1325, 4023, 6745
 Qi, J. 1170-1171, 2976
 Qi, J. R. 4516
 Qi, L. 2008
 Qi, P. K. 9984
 Qi, R. S. 3483
 Qi, S. X. 3611
 Qi, X. 335
 Qi, X. Q. 2142
 Qi, Y. S. 189
 Qi JuRong 4516
 Qi Ling 2008
 Qi PeiKun 9984
 Qi RunShen 3483
 Qi XiaoQun 2142
 Qi YongShun 189
 Qian, D. M. 6351
 Qian, G. X. 10385
 Qian, H. M. 10840
 Qian, L. S. 6458
 Qian, Y. L. 668, 7034, 10675
 Qian, Y. Q. 8394, 10402
 Qian, Y. X. 6454
 Qian, Z. S. 4319
 Qian DongMei 6351
 Qian GuangXu 10385
 Qian LiSheng 6458
 Qian YingQian 8394
 Qian YiXiang 6454
 Qian YueQin 10402
 Qian ZeShu 4319
 Qiao, X. W. 9511
 Qiao XiongWu 9511
 Qin, D. K. 9053
 Qin, J. F. 3509
 Qin, L. 3821, 5599
 Qin, L. Y. 5652
 Qin, R. M. 4296
 Qin, W. Y. 1562
 Qin, X. R. 738
 Qin, Y. C. 115
 Qin, Z. Q. 10269
 Qin, Z. W. 4109
 Qin DaKai 9053
 Qin JanFang 3509
 Qin Ling 3821
 Qin RuiMing 4296
 Qin WenYing 1562
 Qin ZhiWei 4109
 Qin ZhongQi 10269
 Qing, C. M. 8814
 Qing, D. M. 5740
 Qing CunMing 8814
 Qing DongMei 5740
 Qiou, Y. Z. 9883
 Qiu, J. 5691
 Qiu, W. 5877
 Qiu, W. L. 2996
 Qiu, X. G. 6461
 Qiu, Y. P. 1751
 Qiu, Z. H. 6502
 Qiu, Z. Z. 2755
 Qiu WuLin 2996
 Qiu XiangGuo 6461
 Qiu YanPing 1751
 Qiu ZhiZan 2755
 Qiu ZhongHua 6502
 Qrunfle, M. M. 5263
 Qu, G. M. 8285
 Qu, S. C. 657
 Qu, S. Q. 3233
 Qu GuiMin 8285
 Qu ShuCun 657
 Qu ShuQin 3233
 Quach Dinh 4702
 Quader, M. A. 8024
 Quadros, R. M. B. de 10788
 Quagliotti, L. 468, 9557
 Quarles, W. 8809
 Quaroni, S. 3089
 Quartacci, M. F. 179
 Quarryouti, M. M. 329
 Quashie, A. M. 8620
 Quast, P. 5731
 Quay, L. 4372
 Que, R. F. 4226
 Que RuiFen 4226
 Quebedeaux, B. 122, 6575
 Queires, L. C. S. 8592
 Queiroz, C. G. de S. 10990
 Queiróz, M. A. de 7789
 Quemerais, B. 1764
 Quennou, M. 3777
 Quentin, U. 1315
 Quesada, F. M. 332
 Quesada-Allué, L. A. 6048
 Quezada-Martin, R. 8215
 Quick, W. P. 6013
 Quilici, S. 6334
 Quillec, S. le 9573
 Quillien, L. 3211
 Quinn, D. 6991
 Quinn, J. A. 4153
 Quinn, K. 5228
 Quiñones, W. 4583
 Quintero, A. 4848
 Quiroga de Oriolani, M. E. 3969
 Quirós, C. A. 2293
 Quraishi, A. 597
 Qureshi, N. A. 1676
 Qureshi, S. A. 4625
 Ra, S. W. 3025, 10545
 Ra SangWook 3025, 10545
 Rab, A. 6810, 9432
 Rabbany, A. B. M. G. 8305
 Rabbinge, R. 5792
 Rabczewicz, J. 9341, 9347
 Rabe, E. 4501, 4524, 5397, 9886
 Rabeh, M. R. M. 7232
 Rabinowitch, H. D. 5827-5828, 8696
 Rabion, P. 8447
 Rabiti, A. L. 7656
 Raboni, F. 3085
 Rabotti, G. 2205, 5896
 Raccach, B. 3176
 Rachidi, F. 10491
 Rachmani, D. 6948
 Raciti, E. 5386
 Radajewska, B. 1147, 1234, 9362
 Radassao, L. 3844
 Rademacher, W. 7425
 Radersma, S. 9020
 Radha, N. S. 9713
 Radha, R. K. 7932
 Radha Lakshmanan 9075
 Radhakrishna, V. 3151
 Radhakrishnan, B. 1849
 Radhakrishnan, T. C. 2674
 Radhakrishnan, V. V. 6247
 Radhamani, J. 2668
 Radicati, L. 208, 1929
 Radomski, M. I. 10788
 Radu, C. 8462
 Ráduly, E. 2847
 Radzhabov, S. D. 3135
 Raeini-Sarjaz, M. 422
 Raese, J. T. 188, 8365
 Raese, T. 105, 5678
 Rafarel, C. R. 5570
 Rafendran, R. 1788
 Raffert, G. 435
 Rafin, C. 6748
 Ragab, B. 9597
 Ragala, L. 8568-8569
 Rageau, R. 10216
 Raghava, N. 2373
 Raghava, R. P. 2373
 Raghavan, G. S. V. 1976, 2188
 Raghavan, V. 4376
 Raghavendra, A. S. 6865
 Ragheb, W. S. 7750
 Raghur, K. 7137
 Raghunathan, P. 7439
 Raghupathi, H. B. 1836, 7619, 9392-9393
 Raghuramulu, N. 7819
 Raghuramulu, Y. 9027
 Ragone, D. 8111
 Ragone, M. L. 8964
 Ragunathan, R. 6072
 Ragupathi, N. 9552
 Ragusa, S. 764
 Rahaman, A. A. S. 9880
 Rahangdale, S. L. 4617
 Rahangdale, S. M. 10433
 Rahemi, M. 8377
 Rahim, M. A. 5782
 Rahim, S. 2730
 Rahima Khatun 3327
 Rahman, A. 2586, 9544
 Rahman, A. K. M. M. 4208
 Rahman, A. S. A. 2284
 Rahman, F. 10007
 Rahman, H. 10851
 Rahman, M. 8039
 Rahman, M. A. 2199, 10461
 Rahman, M. M. 3250, 7335
 Rahman, N. 10691
 Rahman, S. M. 8997
 Rai, B. 1506
 Rai, H. S. 1726
 Rai, R. M. 6624
 Rai, T. 7268
 Rai, V. K. 623, 5011, 9526
 Raid, R. N. 2328
 Raie, M. Y. 9961
 Raifer, B. 7606
 Raigon, M. D. 7203
 Rajadhav, S. B. 9874
 Raikhel, N. V. 5048
 Raikhman, L. A. 5025
 Raimondo, F. M. 7969
 Raina, J. N. 2193
 Raina, S. S. 1074
 Raj, H. 6909
 Raj, M. F. 5869
 Raj Narayan 9472
 Rajagopal, A. 7273, 8717
 Rajagopal, R. 9069
 Rajagopal, V. 9023, 10920
 Rajagopalan, A. 1800
 Rajagopalan, B. 1359
 Rajakrishnamurthy, V. 7273
 Rajam, M. V. 485
 Rajamony, L. 2674
 Rajan, R. 8864
 Rajan, S. 10946, 10961-10962
 Rajanna, K. M. 9477
 Rajapakse, D. P. 8721
 Rajapakse, N. C. 9662, 9743
 Rajapakse, S. 6615
 Rajarathinam, K. 780, 7187, 7374, 7947
 Rajasekharan, R. 7181
 Rajat Saxena 4950
 Rajender Singh 3143
 Rajendra Gupta 9112
 Rajendra Singh 3180
 Rajesh Kumar 6808
 Rajeswari Sundarababu 10553
 Rajkai, G. 8898
 Rajmohan, K. 8762
 Rajput, A. L. 10481
 Rajput, C. B. S. 11019
 Raju, U. J. 4999
 Rakesh 11015
 Rakhimov, D. A. 4019, 4122, 8894
 Rakhmanberdyeva, R. K. 4019, 8894
 Rakhonde, B. M. 10833
 Rakičević, M. 1075
 Rakngan, J. 8361
 Rakoto-Ratsimamanga, A. 5344
 Rallo, L. 864, 8103
 Ram, H. Y. M. 6059, 8915
 Ram, L. 4042
 Ram, M. 7146, 8014
 Ram, S. 7324, 7327, 7332, 10950
 Ram Dayal 11015
 Ram Kishan 968
 Ram Partap 8489
 Rama, T. 3334, 3353
 Ramachandran Nair, A. G. 8774
 Ramachandran Nair, S. 1782, 8762
 Ramadan, N. A. 3130
 Ramadasan, A. 4439
 Ramakrishnan, A. 4416
 Ramallo, J. 4884, 5312, 10290
 Ramallo, N. E. V. de 4884
 Ramamurthy, R. 4621
 Ramamurthy, V. 3244, 8049, 10381
 Raman, H. 4491
 Raman Sandhu 10626
 Ramana, B. S. 3121, 8617
 Ramana, K. V. 7986
 Ramanjaneya, K. H. 4619
 Ramassamy, V. 2491
 Ramaswamy, H. S. 10042
 Ramat, T. 1931
 Ramawat, K. G. 1768, 5517
 Ramawickrama, D. 10994, 10996
 Rambal, S. 273
 Rambour, S. 1302
 Ramcharan, C. 9006
 Ramchatgoen, S. 982
 Rämert, B. 1486
 Ramesh Chand 10379
 Ramesh Tiwari 847
 Ramina, A. 3877, 7530, 9299
 Ramírez, A. 2379
 Ramírez, A. 2579
 Ramírez, C. 1402, 2331
 Ramírez, E. 42
 Ramírez, F. 2379, 6809
 Ramírez, H. 7492, 10393
 Ramírez, O. 2293
 Ramírez, O. A. 901
 Ramírez-Chavez, E. 6273
 Ramming, D. W. 2076, 5749
 Ramnanan, N. 10813
 Ramos, C. 1721, 6327
 Ramos, C. H. 10063
 Ramos, D. E. 2035, 10257
 Ramos, J. D. 5705, 8258, 8943
 Ramos, L. E. 6320
 Ramos, R. 5477
 Ramsdell, D. C. 985, 7599
 Ramsey, M. 1572, 7904
 Ramu, B. S. 9865
 Ramu, B. S. S. 8994
 Rana, G. 8098
 Rana, G. L. 1291
 Rana, H. S. 10084
 Rana, N. S. 5300
 Rana, U. 9526
 Ranamukaarachchi, S. L. 9091
 Ranasinghe, M. S. 2749, 6446
 Ranasinghe, S. 6849
 Randall, D. D. 449, 9611
 Randall, R. E. 9856
 Randhawa, K. S. 5126
 Randhir Singh 9553
 Randle, W. M. 2135
 Rane, K. K. 3664
 Ranganathan, P. 2439
 Ranganathan, R. 10039
 Rangaswamy, P. 8344
 Rangel, A. O. S. S. 4939
 Ranger, S. 137
 Rani, P. 10943
 Rani, P. G. 8114
 Ranieri, A. 5043, 9504
 Raniperumal 6926
 Rankov, V. 10363
 Ranpise, S. A. 9714, 9874
 Ransmark, S. E. 4612
 Ranst, E. van 1843, 9066
 Ranvir Singh 6561
 Rao, A. N. 7061
 Rao, B. R. R. 9834
 Rao, D. S. S. 1916
 Rao, D. V. K. N. 4638
 Rao, E. V. S. P. 10760
 Rao, G. G. 10751
 Rao, G. S. L. H. V. P. 897, 1790
 Rao, G. U. 9674
 Rao, J. S. 1663, 5301
 Rao, K. A. 10010

- Rao, K. J. 9428
 Rao, M. H. 4944
 Rao, M. M. 3734, 5464, 10970
 Rao, M. S. 1501, 5520, 8169, 8678
 Rao, N. M. 8597
 Rao, P. R. M. 619, 5154
 Rao, P. S. 3646
 Rao, R. S. G. 10760
 Rao, S. N. 3180
 Rao, S. R. S. 6998
 Rao, T. M. 7003
 Rapillard, C. 8358
 Rapior, S. 6060
 Rapisarda, A. 764
 Rapisarda, P. 2626, 3607
 Rapoport, H. F. 864
 Rapp, A. 3023, 6720
 Rapp, G. 899
 Rapparini, G. 7687, 8214
 Rascio, N. 393, 2570, 4489, 5080, 5663, 7193
 Rascol, J. P. 10802
 Rashad, M. M. 394, 5881
 Rashid, A. 3678
 Rashmi 6457
 Rasi-Caldogno, F. 2191, 6802
 Raskin, I. 4017
 Rasmussen, F. N. 10693
 Rasmussen, H. N. 5535, 6167
 Rasmussen, S. L. 10472
 Rasmussen, T. 9286
 Rasmussen, T. S. 5435, 10213
 Rasoanaivo, P. 5344
 Raspini, L. 3967, 7612
 Rass, W. 7470, 7481
 Rassadina, V. V. 6835
 Rassvetaeva, E. G. 9324
 Rast, D. M. 296
 Rastogi, K. B. 8603
 Rataj, V. 1388
 Ratajczak, R. 1527, 1593, 1724, 6162
 Ratan Singh 8090
 Ratanachinakorn, B. 10572
 Ratcliffe, R. G. 2124
 Rath, S. 2118, 3653, 7334, 9015
 Rath, T. 10715
 Rathi, S. J. 10430
 Rathod, J. R. 3154
 Rathore, B. S. 10803
 Rathore, R. S. 10803
 Rathore, S. V. S. 10444
 Rati, L. 3763
 Rati, V. I. 3763, 3902
 Ratnambal, M. J. 10919
 Ratsch, H. C. 439
 Ratsimamanga-Urverg, S. 5344
 Ratsirarson, J. 1591
 Rattan, M. 1877
 Rattan, P. S. 2759, 9093
 Raturi, G. B. 8168
 Rauch, F. D. 2430
 Rauh, W. 7045
 Raun, G. G. 9738
 Raupp, M. J. 723
 Rauret, G. 4072
 Rauscher, T. 5152
 Raut, S. P. 4444
 Ravaglia, G. 3881, 4838, 9297
 Raven, P. W. J. 8195
 Ravender Singh 10747, 10751
 Ravetta, D. A. 10810-10811
 Ravi, D. 2566
 Ravichandran, M. 5082
 Ravindra, N. S. 2528, 6245
 Ravindra Kumar 6561
 Ravindran, P. N. 748
 Ravindranath, S. D. 9098
 Ravishankar, N. 10970
 Raviv, M. 3497, 8743
 Rawat, M. S. M. 10202, 10262
 Rawlinson, P. 3330
 Ray, B. K. 10712
 Ray, D. P. 8199, 9008
 Ray, P. 7999, 8893
 Ray, S. 7999, 8893
 Ray, S. K. 3363
 Ray, S. K. D. 10392
 Raychaudhuri, S. S. 9859
 Raynal, J. 221, 4821, 7824
 Rayner, G. J. 2839
 Rayson, G. D. 7163
 Razin, A. M. 6256, 8042
 Razmjoo, K. 7907, 7910
 Read, N. D. 3403
 Read, P. E. 5708
 Reader, R. J. 1339
 Reagan, C. A. 8950
 Real, J. 4072
 Rébeillé, F. 3119
 Rebers, M. 651
 Rebucci, B. 6702
 Recasens, I. 4800
 Recasens, J. 7834
 Recel, M. R. 3649
 Reczynski, W. 7028
 Redak, R. A. 4396
 Reddi, C. S. 8010
 Reddy, A. G. S. 6401
 Reddy, A. R. 2575
 Reddy, B. 9991
 Reddy, B. S. 10661-10662, 10970
 Reddy, D. V. 5635
 Reddy, D. V. S. 10919
 Reddy, K. M. 9866
 Reddy, K. V. S. 9005
 Reddy, M. N. N. 3519
 Reddy, P. N. 8994
 Reddy, P. P. 7003, 8678
 Reddy, T. V. 5462
 Reddy, V. 1916
 Reddy, V. V. P. 5495
 Reddy, Y. T. N. 5495, 10986
 Redecker, D. 10395
 Redgwell, R. J. 218, 3915, 4792
 Redl, H. 280
 Redlin, S. C. 10733
 Redondo, M. J. 5388
 Redshaw, M. J. 10915
 Reduron, J. P. 2516
 Reed, B. M. 2967, 6650
 Reed, D. W. 5655
 Reed, J. N. 2350
 Reed, R. B. 6105
 Reeder, R. K. 4880
 Reekie, E. G. 3548
 Reerink, J. A. 2155
 Rees, A. 8959
 Rees, L. 9841
 Rees, T. ap 4585
 Reese, R. N. 8920
 Reeves, K. 5526
 Refai, E. F. 4096
 Regan, R. P. 2475
 Regenhardt, I. 5334
 Regev, R. 9702
 Reggiani, G. 2969
 Reghuveer Polisetty 7793
 Reginato M., G. 4927
 Regner-Joosten, K. 2225
 Reguera, R. M. 8109
 Regupathy, A. 6261, 6949
 Reh, I. 3058
 Rehana Ahmed 6517
 Reich, M. 10184
 Reichert, N. A. 5888
 Reichling, J. 5304, 10752
 Reickenberg, R. L. 3922
 Reid, B. L. 5445
 Reid, C. L. 10335
 Reid, G. E. 7010
 Reid, J. B. 6870, 8395
 Reid, M. S. 4427, 7431, 7859, 7892, 7959
 Reid, P. D. 7748
 Reid, R. 1509
 Reid, W. 10246
 Reighard, G. L. 6615
 Reil, W. O. 9330
 Reilly, T. 2638
 Reina, A. 3031
 Reinard, T. 4175
 Reinaudi, N. B. 6054
 Reinbott, T. M. 6664
 Reinecke, D. M. 1401, 5982
 Reiners, S. 487
 Reinert, R. A. 9962
 Reinhammar, L. G. 9764
 Reinikainen, O. 3270
 Reis, M. 3399
 Reis, P. R. 9600, 9955
 Reis, S. von 10041
 Reiser, J. M. 2198
 Reising, H. 7124
 Reiss, H. D. 5141
 Reissig, W. H. 8300
 Reissmann, C. B. 9491, 10788
 Reist, A. 6930
 Reitmeier, C. A. 3027
 Rejnus, M. 8402
 Rekha Chaudhury 2668
 Rekowska, E. 331, 9488
 Rema, J. 7993, 9398
 Remeshree, A. B. 4454
 Remortel, E. van 4773
 Remund, U. 6706, 10341
 Ren, H. M. 6765
 Ren, Q. D. 5643
 Ren, Q. H. 4324
 Ren, X. L. 969, 10253
 Ren, X. Y. 2066
 Ren, Y. Y. 1690
 Ren HuiMiao 6765
 Ren QingHua 4324
 Ren XiaoLin 969, 10253
 Ren YeuYing 1690
 Rena, A. B. 4605, 6398
 Renard, C. M. G. C. 8306
 Renard, J. L. 6394
 Renaud, R. 1177, 2026-2027
 Renaud, S. M. 5347
 Rendell, C. H. 8148
 Rendina, A. 8535
 René, F. 2342
 Rengasamy, B. 7523
 Rengasamy, S. 4448
 Rengifo, C. 7319
 Renkema, J. A. 6093
 Rennes, C. 2101, 2104, 4905
 Rensburg, L. van 9664
 Rensburg, P. J. J. van 5397
 Renu Agrawal 3603
 Renu Bhatt 5345
 Renu Rajan 8864
 Renwick, A. 6493
 Repetto, A. 354
 Requena, A. 8362
 Rerikh, L. A. 4936
 Rerkasem, B. 5935
 Resch, H. 3526
 Resende, F. V. 7655
 Resende, G. M. de 3162
 Resende, M. L. B. de 6435
 Respatijarti 7072
 Restagno, M. 262
 Retamal, N. 315
 Retamales, J. 7561, 7636
 Rether, B. 3536
 Rethinam, P. 10030
 Rethy, P. 9135
 Reulet, P. 8705
 Reusch, R. N. 1296
 Reuss, J. 2312, 2318, 5577
 Reustle, G. 5753
 Reuven, M. 6088
 Reuveni, M. 1046, 1358, 6819
 Reuveni, R. 997, 1046, 1358, 3497, 6819
 Revathy, P. 1254
 Revol, P. 6617
 Rey, C. 3529
 Rey, E. 4223
 Rey, H. 5499, 9988
 Rey, H. Y. 6316
 Rey, M. 1186, 5644
 Rey, G. 1814, 7684
 Reyes, F. G. R. 2118
 Reyes, J. L. 3200
 Reyes, M. U. 2718
 Reyes Cuesta, R. 5936
 Reyes Santiago, J. 5218
 Reyes Soto, I. 10949
 Reymann, D. 5553
 Reynaud, L. 4904
 Reynolds, A. G. 2098, 4000, 6698, 6703
 Reynolds, R. E. 9928
 Reynolds, S. L. 1911
 Reynolds, T. 9734
 Reza, M. A. 7372
 Rezanka, T. 8823
 Rhee, H. C. 2218, 3074, 3672
 Rhee, H. K. 5016
 Rhee, J. Y. 7780
 Rhee HanChul 2218, 3074, 3672
 Rhee HyeKyung 5016
 Rho, T. H. 3025
 Rho TaeHong 3025
 Rhoads, F. M. 8670
 Rhoden, E. G. 317
 Riaz, M. N. 6659
 Riaz, G. 8377
 Ribaux, M. 87
 Ribeiro, J. E. L. da S. 5253
 Rice, G. 7011, 10630
 Rice, R. A. 10923
 Rice, R. E. 9167, 9293, 9323
 Rice, R. V. 715
 Richard, P. 10885
 Richard-Forget, F. 7843
 Richards, B. A. J. 2479, 4368
 Richards, C. W. 7911
 Richards, G. 8970
 Richards, M. B. 1655
 Richardson, A. C. 3638, 5391, 7264, 10908
 Richardson, C. M. 8333
 Richardson, D. G. 192, 8372
 Richardson, G. R. 838, 7216
 Richman, D. B. 2979
 Richmond, G. S. 768
 Richter, E. 341
 Richter, M. 8756
 Richwine, A. M. 4360
 Rico, A. 4007
 Ricouard, N. 260
 Ridder, N. de 9020
 Riddle, K. A. 3205
 Ride, J. P. 1554
 Ridé, M. 10334
 Ridgway, R. 5529
 Ridley, S. 6862
 Ridray, G. 1235
 Riedel, W. 5553
 Riederer, M. 1686, 5292, 7880, 10632
 Rieger, M. 1201
 Riek, J. de 689
 Riens, B. 10404
 Ries, S. 5114
 Riesen, W. 2855, 3887, 4767, 8266, 9317
 Rietze, E. 6187
 Righetti, B. 4814
 Righetti, T. 2887
 Rigling, D. 168
 Rigo, G. 3853
 Rigueiro, A. 7569
 Rij, R. E. 5038
 Rijck, G. de 3413, 3444, 5789-5790
 Riley, D. G. 9045-9046
 Riley, J. C. M. 4250
 Rimpler, H. 4314
 Rina Nandi 10600
 Rinaldelli, E. 3617, 3625
 Rinallo, C. 3776
 Rinaudo, M. 1153
 Rindom, A. 9201
 Rinker, D. L. 2335
 Rinsma, S. 1205
 Rintamäki, E. 10473
 Río, C. del 2642
 Río, J. A. del 1740, 2618, 5207
 Río, L. A. del 3671
 Río, P. del 6004
 Río, R. E. del 6273
 Rios, G. P. 5929
 Ríos, H. 6809
 Riou, C. 1231, 6692
 Rioux, J. A. 6233
 Ripa S., R. 285
 Riquelme, A. 10492
 Riquelme, C. 1227
 Riquelme, F. 2282
 Rishi, A. K. 2545
 Ristevski, B. 10179
 Ristic, Z. 5284
 Ristović, S. 10413
 Risueño, M. C. 2274, 4185
 Rita, H. 5601

- Ritchie, D. F. 995
 Ritenour, M. A. 7694, 9466
 Rithe, S. R. 337
 Ritter, S. 3201
 Riva, M. 349
 Rivalta, L. 4841
 Rivas, J. de las 5968
 Rivata, R. S. 5667
 Rivenez, M. O. 1922
 Rivera, R. 5479-5480
 Rivero, J. M. del 2895
 Rivière, H. 2251
 Riviere-Rolland, H. 5965
 Rivista di Frutticoltura e di Ortofloricoltura 9905-9907
 Rivoira, G. 4133, 4683
 Rizvi, S. A. 603
 Rizvi, S. M. A. 2605
 Rizzi, C. 2897
 Rizzo, M. 5651
 Rizzo, R. 5352
 Rizzolli, W. 1959
 Rizzolo, A. 182, 185, 1983, 3885, 4897
 Ro, H. M. 95
 Ro HeeMyong 95
 Roa, F. G. 6021
 Robacker, C. D. 7423
 Robak, J. 384, 5105
 Robaldo, G. 4361
 Robbe, A. 2058
 Robbers, J. E. 10573
 Robbertse, H. 2634
 Robbertse, P. J. 798, 803, 1750, 1752, 3573, 10960
 Röber, R. 4293, 5234
 Robert, C. 7843
 Robert, J. M. 3557
 Roberti, R. 5662
 Roberts, A. V. 724
 Roberts, A. W. 2399
 Roberts, B. 2298
 Roberts, G. S. 7626
 Roberts, J. A. 998
 Roberts, K. 3423
 Roberts, P. A. 5780
 Roberts, S. 1921
 Roberts, S. B. 3907
 Roberts, T. M. 5570
 Roberts, W. J. 44-46
 Robertson, D. 425
 Robertson, G. W. 391
 Robertson, I. 1513, 9843
 Robeva, P. 8761
 Robin, J. P. 3963, 6722
 Robinett, G. 642
 Robinett, J. 642
 Robins, R. J. 2543-2544
 Robinson, A. 9716
 Robinson, B. J. 2166
 Robinson, C. A. 5180
 Robinson, D. 10404
 Robinson, D. G. 453, 5972, 6873
 Robinson, D. S. 2256
 Robinson, J. C. 2793, 3647, 4577, 7272, 9928
 Robinson, M. L. 5153
 Robinson, R. K. 848
 Robinson, S. P. 7218, 10345
 Robinson, T. L. 4748
 Robinson, W. L. 5186
 Robredo, L. M. 304
 Robson, N. 3507
 Robson, N. K. B. 3699
 Roby, C. 4391
 Roca, M. 2611
 Roca, M. C. 1307
 Rocca, E. 1209
 Rocca, N. la 4489, 7193
 Rocchi, P. 6360
 Rocha, F. 2818
 Rocha, J. F. 7377
 RoCHAT, E. 4253
 Roche, D. 4599
 Roche, L. 7456
 Rucker, E. de 5730
 Rockholm, D. C. 5849
 Rode, V. A. 10642
 Roder, W. 876
 Rodolfi, A. 7595
 Rodov, V. 846, 1422, 2838, 5496, 7781
 Rodrigo, V. H. L. 2743
 Rodrigues, J. D. 4867, 10924
 Rodrigues, L. E. A. 8592
 Rodrigues Neto, J. 3402
 Rodríguez, A. 2988
 Rodríguez, A. 674, 1587
 Rodríguez, J. 7346, 9974
 Rodríguez, J. M. 2610
 Rodríguez, M. 3562, 5480, 7319
 Rodríguez, N. 4280
 Rodríguez, R. 1186, 5644, 6314, 7211-7212, 7243-7244, 10256
 Rodríguez, V. A. 4508
 Rodríguez-A., J. 10212
 Rodríguez-Almazán, E. 315
 Rodríguez-Amaya, A. S. 5305
 Rodríguez-Amaya, D. B. 6371, 8979
 Rodríguez-Kábana, R. 6931
 Rodríguez Lovelle, B. 3975
 Rodríguez P., O. 5134
 Rodríguez Rodríguez, J. M. 4192
 Rodríguez-Romero, A. 4642
 Roe, D. J. 1747, 1749, 1754, 3564, 3569, 3614, 4488, 4539
 Roe, N. 5076
 Roeck-Holtzhauer, Y. de 8916
 Roelofs, F. 1120, 10161
 Roelofs, F. P. M. M. 1168, 9206, 10096, 10160, 10243
 Roels, P. 7975
 Roesler, K. R. 6522
 Roestel, A. J. J. van 2341
 Rogers, A. 6476
 Rogers, J. C. 9542
 Roggero, J. P. 2099
 Rogozin, V. 6422
 Rogozińska, J. 2275
 Roh, K. A. 9221
 Roh, M. S. 10649
 Roh, T. H. 10545
 Roh KeeAn 9221
 Roh TaeHong 10545
 Rohani, O. 2725, 2728
 Röhl, L. J. 1639
 Rohrbach, R. P. 5709
 Rohwer, J. G. 1625
 Roibu, C. 8269
 Roiz, L. 2616
 Rojas, E. 8106, 10853
 Rojas, R. 3656
 Rojo, M. A. 2709
 Rojo, R. 6426
 Rojo-Domínguez, A. 4642
 Rokhade, A. K. 3694, 3734
 Roland, J. C. 4321
 Roldán, A. 1644
 Rolfe, C. 2812
 Rolfes, W. 2362
 Roloff, A. 10040
 Rolph, C. E. 556
 Rom, C. R. 97, 102, 4715, 4753
 Rom, R. C. 4753
 Roma Mitra 8921
 Romaine, D. J. 5085, 5901
 Romana, G. P. 4919
 Romani, A. 2105, 8490
 Romanko, E. G. 5960
 Romano, D. 4211
 Rombaldi, C. 7824
 Rombolà, A. D. 65, 2983, 3840
 Römer, C. A. R. 103, 1114, 4782, 6576, 6580
 Romera, F. J. 9285
 Romero, A. 8341
 Romero, C. 2653
 Romero, L. 323-324, 3620, 6416, 8568-8569, 8638, 9039, 9043
 Romero, R. 7569
 Romero-Aranda, R. 8063
 Romero-Schmidt, H. L. 8830
 Römheld, V. 2231, 9367
 Rominger, E. 8321
 Romojaro, F. 2282
 Ronald, W. G. 7018
 Ronchi, L. 1628
 Ronchi, V. N. 7837
 Rondón, A. 8677
 Rong, R. B. 10866
 Rongsen, L. 7412
 Ronneberg, T. A. 833
 Ronning, C. M. 2669
 Rooijen, H. van 10231
 Rooijen, W. van 1162
 Rooks, S. D. 2048
 Roomi, M. W. 4625
 Roose, M. L. 2589
 Root, C. D. 10343
 Roover, J. de 9457
 Rooy, W. W. L. van 1891
 Roozen, J. P. 480
 Roper, T. R. 3929, 9351
 Roppongi, K. 6793
 Rorabaugh, P. A. 10472
 Ros Barceló, A. 1419, 3993, 8913
 Rosa, A. de la 3873
 Rosa, E. A. S. 8554
 Rosa, M. 1242
 Rosa, M. dalla 9160
 Rosa, S. de 8688
 Rosa-Ibarra, M. de la 333, 1586
 Rosacker, J. 584
 Rosania, A. 1444, 4212
 Roşca, C. 8321
 Rose, A. 5142
 Rose, A. H. 5470
 Rose, J. K. C. 5489
 Rose, P. D. 776-777
 Rosell, P. 8998
 Rosen, C. J. 10563
 Rosenberg, R. 1448
 Rosenberger, I. 6086
 Rosendahl, S. 5018
 Rosenfeld, D. 5579
 Rosenfeld, H. J. 10286, 10420
 Rosenheim, J. A. 8476
 Rosenhouse, G. 5579
 Rosenqvist, E. 4275
 Rosina, P. 3369
 Rosner, A. 1524
 Rosovitz, M. J. 3198
 Rossbauer, G. 4447
 Rosset, P. L. 4711
 Rossi, F. 1999
 Rossi, G. 6200
 Rossi, V. 7656
 Rossignol, L. 6478
 Rossini, F. 3825
 Rossum, M. W. P. C. van 6131
 Rost, T. L. 1392, 4171
 Rostański, K. 1687
 Rostek, E. 9503
 Rosu, A. 2485
 Rot, I. 5127
 Rotaru, G. 5587
 Rotbaum, A. 1992
 Roth, I. 3050
 Roth, R. L. 6789
 Rothman, S. 4219
 Rotundo, G. 1152
 Roubal, C. 2086
 Roubelakis-Angelakis, K. A. 4928
 Rouby, M. B. 6852
 Rouch, C. 7843
 Rouet-Mayer, M. A. 538
 Rouic, I. le 4321
 Rouillard, G. 6492, 10062
 Roul, F. M. A. 6003
 Rouse, R. E. 5369
 Rouseff, R. L. 4670
 Roussaux, J. 6132
 Rousseau, A. 10501
 Rout, G. R. 4411, 8714, 8857
 Roux, S. J. 4362
 Rouxel, C. 3325
 Rouzet, J. 3869
 Rovell, B. 8421
 Rovers, J. A. J. M. 8201
 Roversi, A. 3815
 Rowaished, A. K. 9550
 Rowan, D. D. 1980, 9349
 Rowe, R. N. 2924, 10326
 Rowell, R. J. 8182
 Rowland, G. G. 5060
 Rowland, L. J. 8418
 Rowley, J. R. 4358
 Roxas, U. A. 634
 Roy, A. 9084
 Roy, D. C. 4201
 Roy, K. 10392
 Roy, M. 10125
 Roy, P. K. 8039
 Roy, R. D. 6490
 Roy, S. 4269, 4788, 5146, 9630, 10948
 Roy, S. K. 8039
 Roychowdhury, A. 5354
 Roychowdhury, N. 9700
 Roychowdhury, P. 9700
 Roys, D. J. 2361
 Roytchev, V. 3990, 6718
 Rozas, M. 3475
 Rožek, S. 2170-2172, 3128
 Rozhankovskii, Yu. V. 6503
 Rozpara, E. 201, 8381
 Ruan, Y. L. 541
 Ruano Prieto, A. 7896
 Ruaro, P. 4919
 Ruaysoongnern, S. 5831
 Rubaihayo, P. R. 5458
 Ruban, A. V. 3111
 Rubel, I. G. 1446
 Rubino, P. 6778
 Rubinstein, B. 7748
 Rubio H., R. 10548
 Rudakouskaya, R. M. 766
 Ruddle, L. J. 4477
 Rudeschko, O. 6591
 Rudolph, J. 295
 Rudraradhya, M. 9559
 Rüegg, J. 4721, 6570, 6600
 Ruel, K. 6654-6655
 Ruesink, J. B. 7979
 Ruffini-Castiglione, M. 4786
 Rufus, G. 10215
 Ruggiero, C. 2285
 Rugini, E. 2652
 Rugmini, P. 7274
 Ruhland, C. T. 5973, 8855
 Rühling, W. 3965
 Ruijs, M. N. A. 39
 Ruijter, F. J. de 8783
 Ruisinger, M. 6083
 Ruiter, H. A. de 5169, 9661
 Ruiz, A. 9043
 Ruiz, C. 8435
 Ruiz, H. A. 6843
 Ruiz, J. 7319
 Ruiz, J. J. 6368
 Ruiz, J. M. 8568-8569, 8638
 Ruiz, L. A. 8966
 Ruiz-Altisent, M. 153
 Ruiz-Lozano, J. M. 4074
 Ruiz R., V. 7676
 Ruiz S., R. 4918
 Ruiz-Sánchez, M. C. 7200
 Rule, L. C. 584
 Ruma Pal 5354
 Ruman, T. 10322
 Rumawas, F. 9113
 Rumpel, J. 4956
 Runia, W. T. 1034
 Rupasava, Zh. A. 765-766
 Rupp, D. 2880, 3045, 7635
 Rus-Alvarez, A. 4229
 Russalenska, V. R. 765
 Russo, A. 1526, 1734
 Russo, G. 3619
 Russo, M. 9912
 Russo, V. M. 9567
 Rustamani, M. A. 2628, 6902, 8578
 Rustenholz, P. 1173, 2855, 3814, 4729, 8243, 9317
 Ruter, J. M. 4415, 6227-6228, 7423
 Rutkowski, K. 8310, 9210
 Ruto, J. K. 954, 957
 Rutto, J. K. 6450
 Ryabchinskaya, T. A. 3784
 Ryan, C. A. 4241
 Ryan, J. E. 8595, 10494
 Rybalov, L. N. 5699
 Rybczyński, R. 8320
 Rychkov, V. A. 1042
 Ryczkowski, M. 7028
 Ryder, E. J. 2166

- Rylski, I. 1448
 Rytter, J. L. 3766
 Ryu, B. Y. 10687-10688
 Ryu, K. H. 695
 Ryu, S. Y. 3321
 Ryu ByoungYeul 10687-10688
 Ryu SeungYeal 3321
 Saaiman, W. C. 10972, 10976, 10978
 Saamin, S. 9130
 Saarimäki, T. 2332
 Saarinen, J. A. 3270
 Saavedra, M. 2851, 7242, 8096
 Saba, T. 9092
 Sabahat, A. 6947
 Sabale, A. 4259
 Sabale, S. B. 8019
 Sabat, A. 7944
 Sabater, F. 1740, 2618
 Sabatier, S. 5689, 5692-5693
 Sabbah, S. M. 6325
 Sabbe, W. E. 8405
 Sabehat, A. 5130, 6038
 Sabio Rey, E. 6884
 Sabir, A. W. 10773
 Sabiti, K. 1471
 Sablina, S. M. 7705
 Sabota, C. 8491
 Sacchetti, G. 4449
 Sacchetti, P. 8355
 Sacchi, G. A. 6814
 Sacco, T. 3523
 Sachan, A. S. 8150
 Sachar, R. C. 2253
 SACHE, I. 432, 3208
 Sackl, R. 5296
 Sacks, E. J. 9609
 Saco, D. 423
 Sadaoka, M. 7158
 Sadaqat Hamid 10773
 Sadaawarte, K. T. 7906
 Sadeh, A. 475
 Sadej, W. 770
 Sadhu, M. K. 9084
 Sadovodstvo i Vinogradarstvo 2025, 4872-4873
 Sadowski, A. 2886, 2913, 2933-2934
 Sadunishvili, T. 9524
 Sady, W. 2171, 3128, 7689, 10669
 Saeed, A. A. 10601
 Saeed Babar 1477
 Saefkow, R. L. 412
 Saenz, J. L. 3739
 Sáenz Pisaca, D. 8882
 Saez, A. 1721
 Safa, S. A. 8204-8205
 Safadi, F. 6546
 Saffarian, K. A. 5744
 Saffarian, A. 5805
 Safi, S. 148
 Safley, C. D. 1023
 Saftner, R. A. 3304, 5122
 Saga, K. 8514, 8523, 8561, 8777
 Sagami, H. 774
 Sagatys, D. S. 8947
 Saggarr, R. A. M. 3693
 Saggese, M. 9912
 Saggin Júnior, O. 1805
 Saggin Júnior, O. J. 3660, 9028
 Saghir, A. R. 9136
 Sagisaka, S. 121, 126
 Sagisaka, T. 10299
 Saha, S. 2245
 Saharan, B. S. 7668
 Sahib, N. A. 5615
 Şahin, A. 9139, 9141-9143
 Sahoo, A. 10576
 Sahoo, B. 1824
 Sahoo, B. C. 6739
 Sahoo, N. 6739
 Sahoo, P. 6246
 Sahoo, S. 6259, 8902
 Sahu, A. 6830
 Sahu, B. C. 9083
 Sahu, K. C. 3166
 Saigo, T. 3687, 9088
 Saikia, L. 8048, 9866
 Sailaja, M. V. 4301, 5144
 Saimbhi, M. S. 545, 2270, 5785
 Saini, L. C. 567, 580, 2364
 Saini, M. L. 4198
 Saini, R. S. 8795, 11015
 St. Clair, D. A. 9609
 St. Ores, C. A. 3757
 Sainz, M. J. 7763
 Saito, I. 6679
 Saito, K. 8000, 8895
 Saito, K. I. 1942
 Saito, N. 1544, 1558, 1597, 4300, 4381, 6101, 6110, 6115, 8796, 10638
 Saito, T. 1406, 2484, 2830, 5033
 Saito, Y. 8366, 10291
 Saitoh, M. 5439
 Saitou, K. 8828
 Sajeda Begum 3327
 Saka, J. D. K. 10054
 Sakaguchi, E. 5492
 Sakai, A. 4436, 9089
 Sakai, E. 3537
 Sakai, H. 5117
 Sakai, K. 3420, 4059, 8646, 8840, 9456
 Sakai, N. 889
 Sakai, Y. 605
 Sakaki, T. 5026
 Sakakibara, M. 2942, 2949, 8347
 Sakamori, M. 10291, 10541, 10931
 Sakamoto, T. 621, 5899
 Sakamoto, Y. 4055
 Sakamura, S. 1465
 Sakano, K. 3541
 Sakata, K. 7081, 7363, 10756
 Sakata, R. 6285
 Sakata, Y. 2409
 Sakaue, O. 35, 5769
 Saker, M. M. 2557, 9577, 9607
 Sakihama, N. 395, 4971
 Sakiyama, R. 9685
 Sakoda, K. 2928
 Sakota, K. 10222
 Sakota, N. 2928
 Sakovich, N. J. 1031
 Saks, Y. 5738, 9919
 Sakuma, F. 190
 Sakuno, T. 10598
 Sakuragi, S. 5883
 Sakurai, A. 5033, 6100, 6234, 6277, 6999, 7160
 Sakurai, K. 6329
 Sakurai, N. 6381
 Sakurai, T. 2213
 Sakurai, Y. 10931
 Sakuta, M. 297, 5619
 Salaeve, T. Ya. 5788
 Salafsky, N. 5525
 Salager, J. L. 2809
 Salaiz, T. A. 1582
 Salam, M. A. 1794, 5467, 6385-6386, 9521, 9944
 Salama, D. A. 6382
 Salamah, S. 2730
 Salamon, I. 3550
 Salamon, Z. 6767, 9343
 Salas, H. 7313
 Salas, L. 6012
 Salas, M. 5931
 Salas, M. L. 7799
 Salazar, D. M. 2663
 Salazar, G. A. 10711
 Salazar, H. 2305
 Salazar-García, S. 2781, 4476, 6305
 Salazar P., H. 2678
 Salbiah, H. 5809, 5821
 Salcedo, C. 4223
 Saleh, M. A. 6301, 6399, 7213
 Saleh, M. M. 2226
 Saleh, A. 494
 Salem, F. M. 4510
 Salem, H. 10875
 Salem, M. 9514
 Salem, S. E. 2621, 3584, 5365, 5381, 5393
 Salema, R. 8913
 Salerno, M. 7563
 Saleses, G. 2027
 Salgado, J. S. 8156
 Salgado-Garciglia, R. 6273
 Salguero, V. 525
 Salim, R. 2146, 2269, 2278, 4691
 Salinger, M. J. 2989
 Sallanon, H. 2985-2986, 7095
 Salleo, S. 5287
 Salm, T. P. M. van der 10727
 Salmon, S. 555
 Salmones, D. 10604
 Salonen, J. 320
 Salopek, B. 4193
 Salt, D. W. 5481
 Saltveit, M. E. 6810, 7694, 9432, 9466
 Salum, M. S. 899
 Salunkhe, D. K. 1870
 Salvador, F. R. de 4813, 9228
 Salvadore, G. 6713
 Salvi, G. 5947
 Salvò, R. 456
 Salyaev, R. K. 10397
 Salzman, R. A. 8481
 Sam, A. K. 1907
 Sam, C. 10904
 Sam, O. 3256
 Sama, A. 1628
 Samad, K. 6517
 Šamaj, J. 682, 5236, 5338
 Samajpati, N. 3363
 Samant, P. K. S. 8765
 Samantaray, S. 8857
 Samarakoon, S. M. A. 2738
 Samaranyake, A. C. I. 2743
 Samarappuli, I. N. 6441
 Samarappuli, L. 2747, 10988, 10997
 Samarasekera, R. K. 2745-2746
 Samaratunga, H. 8153
 Sambandamurthi, S. 4416
 Sambanthamurthi, R. 7344
 Sambeck, J. W. van 2033
 Sambo, E. Y. 10054
 Samdyan, J. S. 404
 Samec, P. 7752
 Samersov, V. F. 3144
 Samoylov, A. 8512
 Samp, R. J. 2351
 Sampaio, N. V. 4681
 Sams, C. E. 116, 3805, 3875, 4799, 5628, 6583
 Samuel, K. 9603
 Samukawa, K. 3549
 Samyn, G. 671, 680
 San Martín, C. 2331
 Sanada, K. 2165
 Sanada, T. 178
 Sanada, Y. 4366, 5117
 Sanago, M. H. M. 4207, 5176
 Sanaja, V. O. 5859
 Sanchaisurinya, P. 9065
 Sanches, N. F. 6438
 Sánchez, A. 3478, 6416, 8681-8682
 Sánchez, C. 5480, 10597
 Sanchez, C. A. 2707, 6789, 7416
 Sánchez, E. 2887, 8362
 Sánchez, J. 7250
 Sánchez, M. T. 6829
 Sánchez, R. A. 1273
 Sánchez, T. M. 6054
 Sánchez-Blanco, M. J. 7200, 10091
 Sánchez-Bravo, J. 6993
 Sánchez-Escribano, E. 4336
 Sánchez López, S. 42
 Sánchez-Monge y Parellada, E. 1869
 Sanchez-Pilcher, J. 6369
 Sánchez-Romero, C. 2581
 Sánchez-Tamés, R. 2988
 Sánchez-Valdés, S. 8215
 Sánchez-Vázquez, J. E. 3354, 3357
 Sanchole, M. 6748
 Šandal, K. 7690
 Sandberg, G. 1470
 Sandei, L. 6005
 Sanden, P. A. C. M. van de 3307
 Sanders, D. C. 1409, 6031
 Sanders, G. 5561
 Sanders, G. E. 5561
 Sanders, P. 9544
 Sanderson, J. P. 727, 3486
 Sanderson, K. C. 4285
 Sandhu, A. S. 5675, 9894, 10860
 Sandhu, G. S. 5071
 Sandhu, K. S. 2270, 3121, 8617
 Sandhu, R. 10626
 Sandler, H. A. 3928, 8412
 Sandmeier, D. 10201
 Sandoval, J. 3645
 Sandoval, L. 6427
 Sandrang, A. K. 242
 Sandu, C. 1531
 Sanetelices, B. 5349
 Sang, J. Z. 1196, 9348
 Sang JianZhong 1196, 9348
 Sangai, S. K. 5339
 Sangakkara, U. R. 5806
 Sangar, R. B. S. 1726
 Sangaré, A. 5471, 7290, 9950
 Sangeeta Khetarpal 7793
 Sangwan, M. S. 580, 2364
 Sanhita Gupta 1437
 Sani, G. 9911
 Sanier, C. 946
 Saniewski, M. 2433, 3436, 7430, 7901, 7922
 Sanjay Singh 301
 Sanjeev Thakur 7180
 Sankar, B. R. M. 5520
 Sankar, G. R. M. 8169
 Sankaran, P. G. 2520
 Sankaranarayanan, C. 10553
 Sankaranarayanan, R. 9551
 Sankat, C. K. 4433
 Sankhla, D. 1533, 5187, 5277, 6213, 6898
 Sankhla, N. 616, 1533, 5277, 6213, 6898
 Sanon, M. 3963
 Sans, F. X. 2850
 Sans, J. 3098
 Sansavini, S. 21, 24, 180, 3710, 3847, 3881-3882, 4756, 4838, 5551
 Sansone, L. 1236, 9390
 Sant Prakash 2136
 Sant Ram 7324, 7327, 7332, 10950
 Santa Cruz, A. M. 8689
 Santaballa, E. 2611
 Santamaria, P. 4188-4189
 Santamour, F. S., Jr. 743
 Santana, N. 3656
 Santana, S. O. de 7995
 Santana Ojeda, J. L. 9010
 Santelli, R. E. 10064
 Santes, C. M. 1400, 4176
 Santhanabosus, S. 8717
 Santhi, P. 5472
 Santi, R. 4945
 Santini, L. 3753
 Santinoni, L. A. 6323
 Santipracha, Q. 3252
 Santos, A. C. dos 2599, 2602
 Santos, I. C. dos 3125
 Santos, J. C. C. 2697
 Santos Oliveira, J. F. 2160
 Sanyal, D. 3588, 4506, 5493, 7266
 Sanz, M. 2000, 2873, 2951-2952, 2957, 5659
 Saotome, M. 7529
 Saproo, M. L. 7143, 9835
 Saracchi, M. 3089
 Sarad Gurung 8122
 Saradadevi, K. 6865
 Saraf, R. K. 8506, 8640, 9568
 Sarafis, V. 10628
 Saragaglia, G. 2084
 Saragih, B. 8134
 Saranah, J. B. 4477
 Sarangi, D. 7236
 Saranjeet Kaur 7945
 Saravanakumar, P. 4046

- Saravanan, A. 6747
 Sáráy, T. 9617
 Sardar, M. A. 6084
 Sardo, V. 825
 Sarehane, M. 5487
 Sargent, K. L. 5708
 Sargent, S. A. 4895, 5051, 10303
 Sargis, R. 1897
 Sari, İ. 10333
 Sari, K. S. 5263
 Sariah, M. 6901
 Saric, M. R. 316
 Sarig, P. 6724
 Sarin, Y. K. 5308
 Sarkadi, L. 6856
 Sarkar, A. N. 8, 6491
 Sarkar, C. R. 5991
 Sarkar, H. N. 950
 Sarkar, P. K. 9555
 Sarkar, S. K. 5004
 Sarkar, T. K. 7236
 Särkkä, L. 6485
 Sarla Badoni 10262
 Sarlach, R. S. 10753
 Sarma, C. M. 11003
 Sarma, D. 10066
 Sarma, N. N. 10066
 Sarma, R. 4576, 10066
 Sarma, U. C. 5991
 Sarma, Y. R. 749
 Sarmiento, R. 4929
 Sarno, R. 6011
 Sarode, S. V. 3230
 Saroj, P. L. 9957, 10938, 10940
 Sarpe, N. 8269
 Sarrantonio, M. 9388
 Sarrazyn, R. 5844
 Sarro, M. J. 2229
 Sartori, E. 1224
 Sárvári, É. 9509
 Sas, L. 2068, 7443, 9367
 Sasakawa, H. 5449
 Sasaki, H. 398, 5091, 10453
 Sasaki, K. 8151
 Sasaki, S. 607
 Sasaki, Y. 9811
 Sasanelli, N. 1291
 Sasawaki, T. 10214
 Sasek, V. 3355
 Sashida, Y. 5199
 Sashidhar, V. R. 9602
 Sasmal, B. C. 7150
 Sass, P. 9213, 9215
 Sasser, J. N. 5776
 Sastrahidayat, I. R. 10371
 Satheshan, K. N. 2542
 Sathyanarayana Reddy, B. 10662, 10970
 Satil, F. 8018
 Satish Lodha 745
 Sato, A. 869, 2656, 6252
 Sato, F. 1681
 Sato, H. 537
 Sato, K. 3018, 4181, 8002
 Sato, M. 1981
 Sato, N. 2704, 8518
 Sato, S. 5883
 Sato, T. 4614, 5866, 6103, 9632
 Sato, Y. 2356, 3368, 4828, 8600
 Satoh, D. 4844
 Satoh, H. 10145
 Satoh, K. 4974, 6863
 Satoh, S. 6047, 7863, 10479
 Satoh, Y. 8772, 8777
 Satou, T. 5199
 Satović, Z. 2837
 Satriyas, I. 2800
 Sattelmacher, B. 6738
 Satterthwaite, L. N. 6158
 Satti, S. M. E. 2121, 3282, 6017, 8675
 Saturnino, H. M. 3245
 Satyabalan, K. 2686
 Satyabrata Maiti 9866
 Satyanarayana, N. 2757, 5515, 9099, 10006, 10011
 Satyaveer Singh 7840
 Satyoso 9987
 Saucedo Veloz, C. 2583, 5359
 Saucke, H. 4102-4103
 Sauer-Gürth, H. 10752
 Saulnier, T. P. 3548
 Saunders, G. 4662
 Saunders, R. C. 2974
 Saure, M. C. 6587
 Sautoy, N. du 3571
 Sauvage, F. X. 6722
 Sauvage, G. de 1073
 Sauvage, Y. 8928
 Sauve, R. 6229
 Savage, L. J. 6522
 Savage, M. J. 8464
 Savalgi, V. 9635
 Savé, R. 2277
 Savin, E. Z. 2863
 Savini, C. 5056
 Savino, V. 205
 Savinskii, S. V. 10130
 Savoie, J. M. 3361
 Sawa, Y. 3560, 9868
 Sawabe, A. 4533
 Sawamura, M. 820, 1701, 4535, 5411, 8938
 Sawant, I. S. 3626, 10847
 Sawant, S. D. 3626, 10847
 Sawarkar, S. K. 4104
 Sawhney, N. 3452
 Sawhney, S. 3452
 Sawhney, S. K. 6859
 Sawhney, V. K. 9674
 Saxena, A. 2530
 Saxena, D. R. 4581
 Saxena, G. 5083
 Saxena, M. 4581
 Saxena, M. C. 430
 Saxena, P. K. 4207, 5176, 7325
 Saxena, R. 4950
 Saxena, S. K. 929, 5345
 Sayan Sdoodee 22
 Sayers, D. E. 5963
 Saygi, Y. B. 9269
 Sayrafi, O. 2146
 Sayrafi, S. A. 2146
 Scaglia, M. 4694
 Scagliarini, S. 349
 Scaglione, G. 5424, 5765, 8353
 Scalabrelli, G. 7602, 9378
 Scalbert, A. 10051
 Scalco, A. 286, 7622-7623
 Scandella, P. 10405
 Scandinavia, Nordiska Jordbruk-sforskarens Förening 2801
 Scanlon, C. 5956
 Scannavini, M. 7640, 7811
 Scapin, I. 4919-4920
 Scarascia Mugnozza, G. 40
 Scarpellini, J. R. 2697
 Scartazza, A. 179, 7952
 Scetta, E. 5765
 Schaap, D. J. 4267, 8723
 Schachtman, D. P. 2298
 Schade, M. 7664
 Schaeffer, M. 4002
 Schäfer, A. 8025
 Schäfer, E. 4438
 Schöffeler, L. 7191
 Schaffer, A. A. 8184, 10530
 Schaffer, B. 5503-5504
 Schaffer, M. 9622
 Schafferman, D. 5952
 Schagen, J. G. van 277
 Schaik, A. C. R. van 7502
 Schaik, A. van 1121, 6586, 9220, 10156
 Schaller, A. 4241
 Schaller, K. 3044
 Schalz, K. 5292
 Schantz, M. L. 481
 Schantz, R. 481
 Schärer, H. 3129, 8466
 Scharpf, H. C. 8859
 Schaub, H. 9505
 Schaub, L. 3748
 Scheepmaker, J. W. A. 7848
 Scheer, A. 7500
 Scheerens, J. C. 3012
 Scheffer, R. J. 3155
 Scheinvar, L. 1771
 Schel, J. H. N. 2325, 5141
 Schena, D. 3369
 Schenider, R. 839
 Schenk, A. 10087
 Schenk, A. M. E. 4735
 Schenk, C. 3536
 Schenone, G. 2238
 Schepman, M. A. 8847
 Scherm, H. 366
 Scherr, F. 10100
 Scheuerlein, R. 4362
 Scheunemann, C. 3318
 Scheuring, J. F. 8171
 Schiavi, M. 3666, 6053
 Schieder, O. 6290
 Schierholt, A. 1449
 Schies, U. 6985
 Schiff, S. 9828
 Schilling, M. 5553
 Schimpf, H. 134
 Schippers, B. 3155
 Schirocki, A. 7588
 Schirra, M. 845, 5405, 7219, 10903
 Schirwitz, K. 7678
 Schlag, M. G. 8017
 Schlauer, B. 7535
 Schleier, R. 2541
 Schlenvoigt, G. 6591
 Schliemann, W. 8897
 Schlimme, D. V. 9455
 Schloemann, S. G. 9368
 Schlösser, E. 3058, 8474
 Schloupf, R. M. 3717
 Schloupt, R. M. 6497
 Schluter, S. 8412
 Schmaltz, D. 5278, 5288
 Schmaus, G. 10608
 Schmid, E. R. 9860
 Schmid, H. 9116
 Schmid, J. 1667
 Schmid, O. 4714
 Schmidt, E. 3379, 8726
 Schmidt, G. 8885
 Schmidt, J. 467
 Schmidt, U. 6102
 Schmidt-Tauscher, A. 6639
 Schmiede, T. S. 8947
 Schmiederer, W. 280
 Schmilovitch, Z. 1744, 9702
 Schmithüsen, F. 3553
 Schmitt, A. 1360
 Schmitt, D. P. 934, 8159-8160
 Schmitt, J. J. 137
 Schmuckenschlager, J. 3065
 Schmutz, U. 7326
 Schnabelrauch, L. S. 6940
 Schnabl, H. 7751, 10498
 Schnarrenberger, C. 3114
 Schneebeli-Graf, R. 999-1000
 Schneider, A. 8436
 Schneider, B. 535, 4239
 Schneider, F. M. 6504
 Schneider, J. 1296
 Schneider, J. C. 6905
 Schneider, J. H. M. 1631
 Schnell, R. J. 2669
 Schnell, T. A. 2234
 Schneller, H. 3080, 7737
 Schnieder, F. 4030
 Schnitzler, W. H. 2190, 4943, 9415, 9421, 10368
 Schnug, E. 7713
 Schober, V. 9391
 Schoellhorn, R. K. 6094
 Schoemaker, A. 870
 Schoeman, P. S. 10928
 Schofer, D. P. 59, 4706
 Scholberg, J. M. S. 8693
 Scholes, J. D. 6013
 Scholes, M. C. 4261
 Schols, H. A. 6579
 Scholtens, A. 1164
 Scholz, G. 5113
 Schonbeck, M. 7806
 Schonbeck, M. W. 8662
 Schönherr, J. 9154
 Schonhof, I. 372, 4083, 4984, 8534
 Schöning, B. 1113
 Schontz, D. 3536
 Schotten, C. G. J. 1891
 Schrader, B. 5553
 Schrader, L. 8301
 Schrameyer, K. 5020, 7737
 Schraudolph, H. 7917
 Schreiber, A. 236, 8415
 Schreiber, H. 481
 Schreiber, L. 5292
 Schreiber, U. 6770, 7121, 7124, 10401
 Schreier, P. 3635, 8172
 Schreiner, M. 1318, 8278
 Schrevens, E. 543, 3413, 3444, 5789-5790, 6590, 6951, 9226, 9616, 10566
 Schrijvers, R. 359
 Schripsema, J. 3711
 Schröder, C. 2488
 Schröder, F. G. 4217
 Schröder, J. 8914
 Schröder, M. 2024
 Schröder, R. 2326
 Schroeder, C. A. 800
 Schroeder, J. I. 2242, 3206
 Schroeder, W. 10971
 Schubert, A. 5791
 Schuch, U. 4396
 Schüepf, H. 110
 Schuhmacher, M. 4007
 Schuiling, M. 6393
 Schuiteman, A. 2437, 2447
 Schulbach, K. 6779
 Schulte, N. L. 165, 10284
 Schultes, R. E. 2492, 10041
 Schultness, B. H. 902, 4603
 Schultz, G. 3219
 Schultz, H. R. 3971, 3982, 7630
 Schultz, P. B. 6217
 Schultz, U. E. 5153
 Schulz, A. 2248
 Schulz, F. A. 8119
 Schulz, H. 134, 4343-4344, 4347-4349
 Schulz, M. 1385, 7751, 10498
 Schumacher, R. 8304, 8422
 Schumann, A. W. 8818
 Schumann, F. 3972
 Schumann, W. 9479
 Schupp, J. 7583, 8423
 Schupp, J. R. 1933, 4744, 7466
 Schürmann, P. 2149, 4976, 6767
 Schuster, D. J. 2299
 Schutte, J. M. 809
 Schwab, M. 378
 Schwabe, W. W. 4550
 Schwager, H. 8466
 Schwallier, F. 1923, 1965
 Schwallier, P. 4750
 Schwalm, S. 2032
 Schwan, R. F. 5470
 Schwartz, A. 4167, 8120
 Schwarz, A. 7435
 Schwarz, D. 4217, 4991
 Schweiger, J. 10477
 Schweissing, F. C. 9445
 Schweizer, E. E. 5819
 Schwendiman, J. 9932
 Sciancalepore, V. 9404
 Scienza, A. 1253, 3041, 3043, 3054, 3974, 3991, 6719, 7603
 Sciortino, A. 634, 3670
 Scippa, G. S. 437
 Sclar, D. C. 6237
 Sneider, F. 5795
 Scoecchi, A. M. 6316
 Scodellaro, M. 5065
 Scolnik, P. A. 2314
 Scopel, A. L. 1273
 Scora, G. A. 2573
 Scora, R. W. 2573
 Scordilis, S. P. 7020
 Scott, J. W. 1433-1434, 1436, 4204
 Scott, K. J. 1978-1979
 Scott, K. L. 9774
 Scott, N. S. 1218, 8434, 8446
 Scott, W. D. 6411
 Scrase, R. 1498
 Scrivner, C. L. 6664
 Scudellari, D. 2953, 3749, 3840, 3862, 5698
 Scudellazi, D. 7444
 Scully, B. 2328

- Scurlock, D. M. 6686
 Scurria, R. 2570
 Seaby, D. A. 2352
 Seager, N. G. 3001, 9338
 Seal, D. R. 1270-1271
 Sealey, D. F. 6626
 Searle, C. 4575
 Searle, P. G. E. 7388
 Sears, M. K. 386
 Seaton, K. A. 8872
 Seaward, M. R. D. 850
 Seawright, A. A. 7191
 Sebastian, S. 897
 Sechser, B. 4946
 Seddiqi, M. 7965
 Sedgley, M. 7546, 9793-9794
 Sediya, M. A. N. 7696
 Sedlak, D. 5568
 Sedov, E. N. 1065, 4728
 Sedova, Z. A. 4733
 Sedysheva, G. A. 1065
 Seebach, D. 1296
 Seel, J. F. 2107
 Seelye, J. F. 457
 Seem, R. C. 281, 1243
 Seema 10943
 Seema, N. 2597
 Seemann, J. R. 4165, 5049
 Seeni, S. 1693, 7932, 8926
 Seetharam, Y. N. 7105
 Seferoglu, G. 9243, 10251
 Segal, I. 47
 Seghi, L. 1242, 10342
 Seginer, I. 2297, 5094
 Segovia, C. 8593
 Segre, A. L. 2355
 Sehgal, C. B. 4442, 9532, 11025
 Sehgal, J. 9999
 Sehgal, O. P. 6125
 Sehrawat, A. 3984
 Seibert, F. S. 6861
 Seidemann, J. 2780, 3697, 7267
 Seidlitz, H. K. 9131
 Seifert, G. J. 1071
 Seitz, H. U. 1683, 5142
 Sekar, T. 7138, 7947
 Sekera, D. 10322
 Sekhon, H. S. 2113
 Seki, M. 4888, 8668
 Sekine, Y. 8517
 Sekiya, A. 3368
 Sekiya, J. 650
 Sekiya, K. 8124
 Sekizuka, F. 4377-4378
 Sekse, L. 166, 1136, 2937-2938, 9227
 Sela, I. 791
 Selamat, J. 2683
 Selamat, M. K. 2733
 Selema, M. D. 9935
 Self, J. R. 10670
 Selga, M. 5022
 Selga, T. 5022
 Seliga, J. P. 3262
 Selisker, M. Y. 10343
 Selker, J. M. L. 10460
 Sell, P. 5020
 Sella, J. 7604
 Sellen, D. 8492
 Sellés van S., G. 6616
 Sellii, R. 180, 3882
 Selmar, D. 5223
 Selvakumar, M. 7303
 Selvaraj, J. A. 9499
 Selvaraj, K. 5962
 Selvaraj, N. 1276-1277, 9434
 Selwa, J. 1991
 Semashko, V. 7437
 Semenov, V. V. 6066
 Semenova, M. N. 6066
 Sempionato, O. 9973
 Semwal, R. L. 1917
 Sen, D. N. 9531
 Sen, J. 3430
 Sen, S. 3430, 7931
 Sen, S. K. 2782, 9085, 9845
 Sen, S. L. 3696
 Sen, S. M. 10260
 Sena, D. K. 3653, 8788
 Senanayake, M. 4595
 Senapati, B. 4104
 Senapati, N. 488
 Senda, T. 2942, 8347
 Sendor, A. 9419
 Sene, K. J. 7631
 Seneviratne, A. S. 10792
 Seneviratne, P. 2738-2741, 5506, 9070, 9080, 10993-10994, 10996
 Şengonca, Ç. 1732, 7664, 8294
 Sengupta, K. 9866
 Senguttuvan, T. 1788
 Senhaji, F. A. 10170
 Senin, V. I. 1935, 8257
 Seniz, V. 544
 Senn, R. 4946
 Sentelhas, P. C. 10320
 Seo, M. W. 2218, 3074
 Seo, S. T. 1217
 Seo MyeongWhoon 2218, 3074
 Seong, J. D. 10780
 Seong, K. C. 2559
 Seong, N. S. 10782
 Seong JaeDuck 10780
 Seong KiCheol 2559
 Seong NakSul 10782
 Seow, T. K. 893, 9021
 Sepaskhah, A. R. 8958
 Seppi, A. 1256
 Sequi, P. 107
 Serek, M. 1643, 2397, 4406, 5575, 6092, 7431, 7859, 7892, 10624
 Sergeev, V. R. 10365
 Serier, J. B. 2785
 Serman, N. 10311, 10319
 Serna, M. D. 8062
 Serova, R. Ya. 2291
 Serova, Z. M. 1065, 4728
 Serpe, M. D. 5275
 Serra, A. dalla 1256
 Serra, G. 1521, 4389
 Serra, S. 4922
 Serrano, A. 3873
 Serrano, M. 2282
 Serrano, R. 2511
 Serrano, S. 6817
 Serrano Altamirano, V. 10826-10827
 Serres, E. 937, 947
 Serret, M. D. 9807
 Service, N. 8793
 Seshu Reddy, K. V. 4582, 9005
 Sessler, B. 66
 Sesto, F. 4720
 Seta, F. della 349
 Sethi, P. K. 10576
 Sethu, K. M. P. 8637
 Sethuraj, M. R. 941, 9069, 9071, 9073, 9079, 10992
 Setiawan, B. 7072
 Setty, T. A. S. 3519
 Setúbal, J. W. 10557
 Setyowati, N. 7071
 Seurei, P. 7351
 Severi, F. 5317
 Sevilla, F. 6330, 9892
 Sevillano Morales, J. S. 2265
 Sevimli, E. 9563
 Sexton, R. 230
 Seyer, A. 10632
 Seymour, G. B. 923
 Seymour, J. 6635
 Seynnaeve, M. 1015-1017, 1373, 5547, 7402, 10055
 Seyring, M. 7012
 Seyyedi, M. 5939
 Sfakiotakis, E. 222, 459-461
 Sfakiotakis, E. M. 816
 Sgorbati, S. 5056
 Shaanker, R. U. 5050, 7381
 Shabanova, D. S. 7442
 Shabi, E. 4549
 Shachar-Hill, Y. 2124
 Shackel, K. A. 2865
 Shackleton, C. M. 4261
 Shadakshari, Y. G. 2521
 Shaddad, M. A. K. 9535
 Shadeque, A. 10375, 10538
 Shaffert, E. E. 2533
 Shafik, M. A. 8704
 Shafique, M. Z. 7335
 Shah, A. H. 4625, 10391
 Shah, H. A. 9551
 Shah, J. J. 7187
 Shah, P. G. 5869
 Shah, S. C. 5298, 7153
 Shah, S. M. 10252
 Shaha, R. 10486
 Shaheena Bi 5324
 Shahida Siddiqui 8227
 Shahin, A. H. 9570
 Shahinshah Safi 148
 Shailendra Rajan 10961-10962
 Shain, S. S. 4458
 Shajahan, A. 4822
 Shakaeva, E. S. 4146
 Shakarmamadov, M. Sh. 5583
 Shaktawat, M. S. 10757
 Shalaby, G. I. 4096
 Shalini Bharel 9848
 Shalom, Y. 7223
 Shaltout, A. 3849, 3857
 Shaltout, A. D. 3831, 10099, 10118
 Shalygo, N. V. 5905, 6835
 Shammet, K. M. 9867
 Shamoni, L. 4472
 Shams-El-Din, A. M. 1338
 Shams El-Din, A. M. 4107
 Shang, J. N. 8163, 8165
 Shang, Q. M. 4076
 Shang, W. M. 3906
 Shang JianNong 8163, 8165
 Shang QingMao 4076
 Shang WeiMin 3906
 Shani, U. 6415
 Shankaralingappa, B. C. 9865
 Shankaranarayana, H. N. 3734
 Shanks, C. H., Jr. 5720
 Shanks, C., Jr. 236, 8415
 Shanmugasundaram, S. 4035
 Shanmugasundaram, V. S. 5472
 Shanmughavel, P. 577
 Shannag, H. K. 406
 Shant, P. S. 5494
 Shant Lal 9048
 Shanta, H. M. 1803
 Shantaram, M. V. 9428
 Shanwal, A. V. 10905
 Shao, D. Y. 9175
 Shao, H. X. 10471
 Shao, J. C. 1322
 Shao, L. M. 4311
 Shao, P. F. 3611
 Shao, R. X. 2554
 Shao, Z. J. 8995
 Shao DaYuan 9175
 Shao HongXiang 10471
 Shao LiMei 4311
 Shao RuXi 2554
 Shao ZhanJiang 8995
 Shapiro, B. 7223
 Shapiro, R. 6947
 Shapoval, O. A. 7742
 Sharaf, A. N. M. 2594
 Sharaf, M. M. 2954-2956
 Sharaiha, R. K. 3204
 Sharan, R. 2732
 Sharanappa Jangandi 3141
 Sharangi, A. B. 6956, 8703
 Sharfuddin, A. F. M. 9580
 Sharkey, T. D. 5049
 Sharma, A. 8881
 Sharma, B. K. 2671
 Sharma, C. M. 11007
 Sharma, C. P. 8602
 Sharma, D. 10355
 Sharma, D. K. 9472, 11006-11007
 Sharma, E. 824
 Sharma, G. 8491
 Sharma, G. C. 6035
 Sharma, H. C. 8483-8484
 Sharma, H. K. 10519
 Sharma, I. M. 1825
 Sharma, I. P. 156, 1950
 Sharma, J. 7929
 Sharma, J. C. 104, 1950
 Sharma, J. K. 2910
 Sharma, J. N. 8944, 10124
 Sharma, K. 1825, 7180
 Sharma, K. D. 1381
 Sharma, K. K. 4950, 8785
 Sharma, K. L. 11006-11007
 Sharma, M. 10753
 Sharma, M. L. 1726
 Sharma, N. 1178, 5494, 6281, 7489, 10834
 Sharma, N. K. 1825, 5036, 7180, 7796
 Sharma, O. 10753
 Sharma, O. L. 9443
 Sharma, O. P. 5948
 Sharma, P. 485
 Sharma, P. B. 10484
 Sharma, P. N. 5948, 9277
 Sharma, R. 824
 Sharma, R. C. 1757, 7540, 9441, 9549, 10384
 Sharma, R. K. 855, 5310, 10381, 10759, 10785
 Sharma, R. L. 6039
 Sharma, R. N. 4187
 Sharma, R. R. 8483-8484
 Sharma, S. 2835, 3984, 9835
 Sharma, S. K. 1467, 1766, 2193, 3750, 5125, 5616, 6805, 8795
 Sharma, S. R. 10031
 Sharma, S. S. 623
 Sharma, T. R. 5325, 9441, 9549, 9822
 Sharma, V. 5337, 7945
 Sharma, V. P. 3338
 Sharma, V. S. 2757, 10011
 Sharp, D. G. 5481
 Sharp, J. L. 1871
 Sharpe, R. H. 1144
 Shasha, B. S. 10528
 Shashank Singh 10390
 Shashi Jain 1766
 Shashidhara, S. D. 8622
 Shatilov, V. R. 2246, 7756
 Shattuck, V. I. 3262
 Shaikhali, T. M. 4439
 Shaul, O. 4404-4405, 7097
 Shavarda, A. L. 5320
 Shaw, D. V. 5734
 Shaw, G. J. 9349
 Shaw, J. M. H. 8764, 8875
 Shaw, M. L. 2135
 Shaw, P. E. 9897
 Shaw, P. J. 7759
 Shaw, P. W. 2906, 3792
 She, W. Q. 856, 8974
 She WenQin 856, 8974
 Shea, G. O. 7815
 Shearer, S. A. 5877
 Shearman, R. C. 1582
 Sheather, W. 1640
 Sheehan, M. 3702
 Sheehan, T. 3702
 Sheehan, T. J. 6996-6997
 Sheela, M. S. 3517
 Sheen, T. F. 4610
 Sheen TzayFa 4610
 Sheets, W. A. 1204
 Shefer, S. 790
 Shehata, A. M. 8625
 Shehata, M. 7270
 Sheikh, K. M. 3678
 Sheikh, M. K. 8146, 9049
 Sheinfeld, S. 1448
 Shelef, G. 2111
 Shellie, K. C. 4528
 Shelp, B. J. 2182, 3400
 Shelton, C. J. 651
 Shen, A. G. 750
 Shen, C. 750
 Shen, D. X. 3472, 10314
 Shen, F. R. 4627
 Shen, G. Q. 5669
 Shen, H. 2304
 Shen, J. G. 1848
 Shen, L. J. 4494
 Shen, L. Q. 1743
 Shen, L. Y. 3692
 Shen, M. P. 1080
 Shen, Q. S. 3906
 Shen, S. H. 2553
 Shen, S. R. 6458
 Shen, W. Y. 1348, 3183

- Shen, X. 70, 3795, 8276
Shen, X. R. 11008
Shen, Y. 4108, 6694, 8553
Shen, Y. D. 6445
Shen, Y. G. 2474
Shen, Y. K. 6765, 6864
Shen, Y. N. 6992
Shen, Y. R. 6455
Shen, Z. M. 10822
Shen, Z. Y. 6792
Shen AiGuang 750
Shen Chang 750
Shen DeXu 3472
Shen FaRong 4627
Shen GanQing 5669
Shen JieGuo 1848
Shen LianYing 3692
Shen MengPing 1080
Shen QingShan 3906
Shen ShaoHua 2553
Shen ShengRong 6458
Shen WenYun 3183
Shen Xiang 70, 3795, 8276
Shen XingRong 11008
Shen YaNan 6992
Shen YaRu 6455
Shen YiDe 6445
Shen Yuan 4108, 6694, 8553
Shen YunGang 2474
Shen YunKang 6765, 6864
Shen ZhengYan 6792
Shendrik, L. N. 10130
Sheng, B. C. 10167
Sheng, M. Y. 8473
Sheng, Z. J. 1063
Sheng ZhaoJiang 1063
Shennan, C. 2298, 6914
Shepherd, J. S. 5539
Shepherd, T. 391
Sher, D. J. 5822
Sher Muhammad 3858, 10217, 10220
Sherafatian, D. 2662, 4794
Sheriff, P. A. 2518, 7130, 7985
Sherlija, K. K. 7282
Sherman, S. P. 3739
Sherman, W. B. 1143-1144, 1997-1998, 3866, 10212
Sheshagiri, K. S. 7134
Shete, D. M. 3977
Sheteawi, S. A. 9604-9605
Shettlar, D. 8810-8811, 9724-9728
Shetty, K. 5316
Shevale, B. S. 6365
Shevchenko, S. V. 2022
Shevchuk, R. S. 1975, 7436
Shevelukha, V. S. 4458
Shewfelt, R. L. 479, 482
Shi, B. 491-492
Shi, G. S. 1163
Shi, H. 1573
Shi, J. 3317
Shi, J. N. 348, 1468, 6943
Shi, J. P. 3894
Shi, J. Q. 4494
Shi, L. R. 3893
Shi, Q. 4627
Shi, R. Z. 10208
Shi, S. X. 8977
Shi, W. X. 427, 3202
Shi, Y. M. 1562, 10558
Shi, Z. B. 9283
Shi Bing 491
Shi GuangSen 1163
Shi Hong 1573
Shi JiaoNai 348, 1468, 6943
Shi JiPing 3894
Shi Jun 3317
Shi LianRang 3893
Shi Qiong 4627
Shi RuiZhi 10208
Shi ShuXing 8977
Shi WeiXing 427, 3202
Shi YiMin 1562, 10558
Shi ZaiBin 9283
Shibano, Y. 2083, 2316, 4932, 6033
Shibao, M. 2067, 7625
Shibata, H. 3560, 9868
Shibata, T. 3537, 6164
Shibha Khanna 5011
Shibli, R. A. 10537, 10542
Shida, A. 5034, 6782
Shieh, J. C. 2376
Shieh JyhCherng 2376
Shiembro, P. N. 4263
Shifris, C. 475
Shigemoto, N. 1404, 10510
Shigenaga, S. 4156
Shigeoka, S. 4059, 10403
Shigeta, J. 3018
Shigeta, J. I. 4181
Shigihara, A. 1544, 1597, 4381, 6101, 6115, 10638
Shikshnianas, T. 3918
Shilling, D. G. 1308
Shilovskaya, T. S. 4106
Shim, K. H. 3628
Shim, K. S. 10522
Shim KeunSeop 10522
Shim KiHwan 3628
Shima, K. 10619
Shimada, M. 9468
Shimada, N. 5866
Shimada, T. 1456
Shimada, Y. 3439
Shimamoto, Y. 10666
Shimaya, A. 4367
Shimazaki, K. 5957
Shimizu, E. 8547
Shimizu, H. 2767
Shimizu, K. 6731
Shimizu, S. 297, 5619
Shimizu, T. 10754-10755
Shimizu, Y. 1650
Shimmen, T. 6276
Shimajima, M. 4148, 5916
Shimokawa, K. 6803
Shimomura, K. 252, 1214, 3537, 4310
Shimonagane, K. 9512
Shin, C. W. 10782
Shin, D. C. 2262
Shin, D. G. 1630
Shin, H. K. 2384-2385, 10617-10618
Shin, M. 395, 4971
Shin, P. K. 5045
Shin, Y. U. 1158, 3765, 3890, 6540
Shin CheolWoo 10782
Shin DongGi 1630
Shin DooChull 2262
Shin HakKi 2384-2385, 10617-10618
Shin YongUk 3765, 3890, 6540
Shinano, T. 10396
Shingu, T. 5516
Shinjo, C. Y. 4378
Shinkle, J. R. 412
Shinomiya, K. 1777
Shinozaki, M. 9669
Shinozaki, Y. 6104
Shintani, D. K. 6522
Shioda, H. 2833, 6380
Shioi, Y. 4148, 4151, 5028, 5916, 9804
Shiojima, K. 8817
Shiomi, S. 4556, 8990
Shioya, H. 1265
Shiozaki, S. 835, 8482, 10854
Shiozaki, Y. 8254, 8272, 8274
Shirai, E. 6252
Shirai, K. 3687
Shirai, M. 3093
Shiraishi, M. 7596, 10868
Shiraishi, N. 10400
Shiraishi, S. 7596, 10868
Shiraishi, T. 9450
Shirazi, A. 10264
Shirko, T. S. 10261
Shirokova, N. P. 5021
Shishido, V. M. 970
Shishido, Y. 240, 3247, 3946
Shivanna, K. R. 8915, 9674
Shivashankar, S. 10920
Shivashankara, K. S. 3679
Shlomo, E. 1550, 2397
Shmanova, I. V. 7156
Shmulevich, I. 5579, 6948
Shobha, K. S. 7966
Shockey, J. M. 7181
Shoda, K. 9276
Shoji, Y. 8782
Shomi, T. 3177
Shorey, H. H. 4926, 8072
Shorosh, B. S. 6522
Shorter, A. J. 4482, 8871, 8879, 9808
Shoseyov, O. 1439, 2616
Shou, S. Y. 6816
Shou SenYan 6816
Shoyama, Y. 6285
Shrefler, J. W. 9458
Shrestha, Y. H. 3587, 5377
Shrirame, A. S. 10433
Shrivastava, N. 3538
Shrivastava, R. K. 4620
Shtefyrtse, A. A. 4781
Shtienberg, A. N. 1048
Shtienberg, D. 6088, 8573
Shu, H. R. 108, 123, 1100, 3783, 3793, 3795, 8374
Shu, J. L. 7361
Shu, P. 7259
Shu, S. Z. 1708
Shu, Z. H. 922
Shu HuaiRui 108, 123, 1100, 3783, 3793, 3795, 8374
Shu JiLin 7361
Shu Ping 7259
Shu ShiZhen 1708
Shu ZenHong 922
Shudo, K. 7429, 9024
Shuei, S. Q. 9174
Shuei ShouQi 9174
Shukla, A. N. 1504
Shukla, B. D. 5829
Shukla, P. T. 7949, 9447
Shukla, S. 7173
Shukla, Y. R. 8603
Shuler, K. 5076
Shulman, Y. 268
Shul'zhenko, B. A. 6505, 6728, 7413
Shuraki, Y. D. 7546
Shuster, W. D. 8494
Shvets, S. A. 8760
Shyam, K. R. 1333, 6019, 10447
Shyamala, V. K. 942
Shyamali Saha 2245
Shyu, J. F. 3612
Shyu, Y. T. 6964
Shyu JiinFung 3612
Shyu YuanTyab 6964
Si, Y. P. 9566
Si YaPing 9566
Sibbett, G. S. 2035, 6470, 9314, 9330, 9910
Sibley, J. L. 730-731, 2489, 6209, 9796
Siby Sebastian 897
Sicher, L. 3034
Sicher, R. C. 4063
Sidari, M. 6637
Siddaramappa, S. N. 6401
Siddique, M. A. A. 2532, 4853
Siddiqui, S. 9219
Sidhu, A. S. 9438
Sidibé, M. 8171
Sidibé, M. M. 8171
Sidiqui, S. 1985
Sidirelli, M. 2228
Sidorenko, O. D. 2529
Sidorovich, E. A. 4881
Siedel, W. 6187
Siedlecka, M. 9539
Siefertmann-Harms, D. 8792
Siegenthaler, P. A. 5917, 6740, 9519
Siegerist, E. S. 693, 4373
Siegfried, W. 6570, 6600, 6706
Sieker, L. 3221
Siems, K. 5221
Sierra, E. M. 3724
Sierra Sanz, C. A. 2693
Sievers, A. 1569, 2411, 4123, 6111
Siew, W. L. 6436, 8155
Siew WaiLin 6436
Siewiński, A. 54
Sifola, I. 2286
Signer, E. R. 2186
Sikora, E. J. 6020
Sikorska, M. 875
Silbereisen, R. 10100
Silcox, D. 640
Siler, D. J. 5353, 8047
Siller, J. 7338
Siller-Cepeda, J. 9974
Siller Cepeda, J. H. 1941
Silva, A. L. da 8485
Silva, A. T. da 5705
Silva, C. N. da 6021
Silva, D. B. da 5542, 7390
Silva, D. J. H. da 7696
Silva, E. M. R. da 8669
Silva, H. 10492
Silva, H. N. de 68
Silva, J. A. da 7390
Silva, J. B. C. 3191, 3309
Silva, J. C. S. e 5542
Silva, J. F. da 4949
Silva, J. L. 197, 200, 6466
Silva, K. T. de 8183
Silva, M. I. V. da 6021
Silva, N. R. 6323
Silva, O. R. F. da 6269
Silva, R. A. da 3162
Silva, S. T. 970
Silva, U. D. da 3162
Silva Júnior, A. A. 759, 6006, 7734, 7792
Silva-Krott, I. U. 3146
Silva Neto, P. J. da 4592
Silva Ribeiro, J. E. L. da 5253
Silveira, D. F. da 8054
Silveira, H. L. 1267
Silverstone, A. L. 1461, 1463
Silvertooth, J. C. 7416
Silvestre, J. 10331
Silvestri, S. 2870
Silvestroni, O. 5765, 6683, 7597, 8437
Sim, G. E. 6317, 7716
Sim, Y. G. 3419, 10725-10726
Sim GuekEng 7716
Sim YongGu 3419, 10725-10726
Sima, P. D. 7924
Sima Bhattacharya 5279
Simandjuntak, V. 9968
Simão, S. 9052
Simčić, M. 7504, 7508, 9160, 9208, 9917
Sime, S. 3148
Simion, C. 4915
Simmonds, L. P. 5240
Simms, C. 6660
Simón, A. 10516
Simón, E. 3659
Simon, E. 4166
Simon, J. C. 7684
Simon, J. E. 4898, 6423, 7145, 7315, 9962
Simón, M. 5086
Simon, U. 1510
Simond-Côte, E. 538
Simoni, A. 2953
Simonić, S. 5694
Simonis, A. 2991
Simonis, A. D. 5654
Simons, B. R. 7473
Simons, D. H. 10572
Simons, S. S. 3344-3345
Simontacchi, M. 7864
Simova-Tošić, D. 7110
Simpkins, I. 724
Simpson, D. 3931, 7582
Simpson, D. R. 854, 2635, 4540, 7252, 9900
Simpson, M. J. A. 7152
Simpson, R. J. 7010
Simpson, S. E. 6320
Sin, Y. M. 6087
Sin YoungMi 6087
Sinclair, B. K. 10515
Sinclair, L. 3356
Sinclair, N. 8780
Sinclair, P. J. 2126-2127, 10374
Sindhu, S. S. 1766, 7670

- Singapore, Orchid Society of South East Asia 9
 Singaravelu, M. 1823
 Singer, S. 3176
 Singer, S. M. 9501-9502, 9965
 Singh, A. 567, 1917, 3727, 4024, 8903, 10379, 10663
 Singh, A. K. 1506, 4252, 7143, 8910, 9050, 9981, 10942, 10946
 Singh, B. 2243, 7997, 8604, 9135, 9565
 Singh, B. M. 2564, 5325, 9822
 Singh, B. P. 527
 Singh, B. R. 1482, 3493
 Singh, B. V. 10905
 Singh, D. 2270, 4958, 5675, 7788, 8617, 9291, 9876
 Singh, D. K. 1441, 6896, 7132, 8785, 9057
 Singh, D. N. 488, 8487, 8511, 8642
 Singh, D. P. 4187
 Singh, D. S. 4616
 Singh, D. V. 3524, 5343, 8013-8014
 Singh, G. 3680, 6888, 6895, 8049, 10942, 10946
 Singh, G. N. 7239, 7378
 Singh, H. 3121, 5298, 7153, 8617
 Singh, H. B. 4197
 Singh, I. B. 8065
 Singh, I. P. 1408, 6920, 7324, 10950
 Singh, I. S. 8487, 9902
 Singh, J. 381, 4620, 7704, 7991
 Singh, J. N. 2530, 8785, 9057
 Singh, J. P. 9819
 Singh, J. V. 5786, 6744
 Singh, K. 1853, 7150, 8489, 8604, 9830, 10390, 10661-10662, 10750, 10952, 11011
 Singh, K. K. 6125, 9817
 Singh, L. 9857
 Singh, L. N. 7998
 Singh, M. 2671, 2715, 2724, 2958, 3524, 5966, 7239, 8065, 9533, 10760
 Singh, M. C. 10369
 Singh, M. K. 9819
 Singh, M. P. 1962, 7325
 Singh, N. 464, 2240, 4960, 9426, 10361, 10424
 Singh, N. P. 7132
 Singh, O. 6755
 Singh, P. 3146, 9902
 Singh, P. K. 9819
 Singh, P. M. 5441
 Singh, R. 3143, 3180, 6561, 8090, 9553, 10747, 10751
 Singh, R. D. 571, 9819, 11004
 Singh, R. K. 8694
 Singh, R. P. 387, 1772, 9830
 Singh, R. S. 5306, 5440, 7140, 10783
 Singh, R. V. 8084, 8508
 Singh, S. 301, 545, 1853, 5966, 7788, 7840, 8487, 10390, 10745
 Singh, S. D. 1663, 5301
 Singh, S. N. 2591
 Singh, S. P. 717, 1691, 1820, 4616, 5004, 7173, 8065, 10390, 11019
 Singh, T. 9533
 Singh, T. P. 767
 Singh, U. B. 7141
 Singh, U. C. 8862
 Singh, U. P. 3213
 Singh, V. 4024, 5299, 7183, 10444, 10787
 Singh, V. K. 9055
 Singh, V. N. 8644
 Singh, V. P. 3524, 5910
 Singh, Y. 9718
 Singh, Y. D. 4125, 6853
 Singh, Y. P. 7850, 8092
 Singh, Z. 1716, 6123, 10860
 Singh Thakur, S. 10485
 Singh Yadav, S. 4960
 Singha, D. D. 10066
 Singhal, R. M. 2526, 2535
 Singhvi, A. 8035
 Singla, R. K. 2836
 Singogo, W. 6414
 Sinha, B. 8881
 Sinha, N. K. 4048
 Sinha, R. R. 10992
 Sinha, S. 8881
 Sinobas, J. 4192, 4390
 Sinthurahat, S. 1843, 9066
 Siomos, A. S. 459-461, 10509
 Sipes, B. S. 934, 8159-8160
 Sippel, A. D. 788, 801, 3563, 3574
 Siqueira, J. O. 1805, 3660, 9028
 Sircar, P. 5871
 Sirhan, L. 2119
 Sirisingsh, S. 8070
 Sirju-Charran, G. 6388
 Sirohi, H. S. 5786, 6744
 Sirohi, P. S. 1460
 Sirohi, R. K. 6815
 Sirohi, S. C. 7332
 Siscaro, G. 1734-1735
 Sisk, C. B. 4926, 8072
 Sisler, E. C. 1643, 2397, 5575, 6092, 7428, 7431, 7859, 10624
 Sisson, D. R. 3122
 Sisto, L. 8098
 Siswanto 5508
 Sitarek, M. 8380
 Sitaubi, L. A. 10054
 Sitawati 7072
 Siti Mordingah Harun 2683
 Sitnikov, A. P. 10582
 Siu, L. P. 712
 Sivakumar, R. 8774
 Sivakumaran, S. 9082
 Sivaprakasam, K. 4999
 Sivaraman, K. 2517, 7990
 Siviero, P. 2128, 3264, 6005, 8648
 Siwek, P. 483, 1021, 9562
 S'Jacob, J. J. 1631
 Sjulín, T. M. 5720
 Skaria, B. P. 3514
 Skarou, F. 1670
 Skhirtladze, R. O. 6023
 Skillman, J. B. 7069
 Skirde, W. 6140
 Skirvin, R. M. 2485
 Skoko, A. 1051
 Skroch, P. W. 4158
 Skroch, W. A. 2472
 Skrzyński, J. 9203, 9209
 Skrzypczak, L. 769
 Skrzypczak-Pietraszek, E. 769
 Skubatz, H. 2417, 7885
 Skuhřavá, M. 7110
 Skupień-Wysocka, K. 10503
 Slabas, A. R. 6307
 Slabbert, M. J. 785, 808, 3567, 4484-4485, 4487
 Slabbert, M. M. 4333
 Slade, E. A. 4044
 Slámová, A. 8219
 Slater, C. E. 7083
 Slaughter, D. C. 5624
 Slavcheva, T. 4910
 Ślęczek, S. 4967-4968
 Slimmon, T. Y. 5176
 Slinde, E. 5918
 Sloan, R. C., Jr. 63
 Slobodyanyuk, G. A. 5777
 Słodkowski, P. 9488
 Sloof, M. 10607
 Sloodweg, G. 9790
 Slovenia, Agricultural Institute of Slovenia 6486
 Slovin, J. P. 9969
 Sluga, T. 356
 Slusaraki, C. 1357
 Slusarenko, A. 8025
 Slusarski, C. 357
 Smagula, J. M. 7576
 Smajstrla, A. G. 3448, 4215, 5095, 10546
 Smallfield, B. M. 8037
 Smallwood, M. 6049
 Smart, J. R. 7188
 Smart, M. K. 8349
 Smedt, V. de 7027
 Smelik, V. A. 6726
 Smet, K. de 3643
 Smets, E. 7975
 Smid, E. J. 4332, 5202
 Smilanick, J. L. 603, 2623
 Smiley, D. W. M. 7144
 Smirnov, O. V. 6063
 Smit, A. C. 8498
 Smit, A. L. 10439-10440, 10451
 Smith, A. 9654
 Smith, A. E. 1872
 Smith, A. M. 1398, 2261
 Smith, A. R. 5573-5574, 5976, 10559
 Smith, B. G. 2737
 Smith, B. J. 9352, 9414
 Smith, C. 51
 Smith, C. A. 3466
 Smith, D. 3599, 8069, 9938
 Smith, D. A. 1807
 Smith, D. C. 10976
 Smith, D. D. 4973
 Smith, D. G. 784, 786
 Smith, D. N. 5466
 Smith, E. 6563
 Smith, G. 8947
 Smith, G. F. 2438, 5225, 5330, 10680
 Smith, G. P. 6791
 Smith, G. S. 10271
 Smith, I. E. 4094
 Smith, J. 1976, 5870
 Smith, J. A. 3337
 Smith, J. A. C. 4365
 Smith, J. D. 7574
 Smith, J. F. 2337, 2344
 Smith, K. 3261
 Smith, L. J. 2472
 Smith, M. 4575
 Smith, M. A. L. 3930, 9823
 Smith, M. F. 3573
 Smith, M. K. 8889, 9004
 Smith, M. L. 4503
 Smith, M. W. 3160, 6231, 10246
 Smith, N. J. 44
 Smith, P. 1770
 Smith, P. S. 5160
 Smith, R. F. 114, 1967
 Smith, R. J. 5414
 Smith, S. E. 2449, 2512
 Smith, S. M. 1368
 Smith, W. 799, 6306, 7190
 Smith, W. W. 5186
 Smits, P. H. 7848
 Smitt, U. W. 5323
 Smittle, D. A. 342, 4049
 Smolarz, K. 3009, 7618
 Smolders, E. 6774
 Smole, J. 3762, 5694
 Smolensky, D. 3602
 Snapp, S. 5938
 Snapp, S. S. 5102
 Snedden, W. A. 3400
 Snel, J. F. H. 686
 Snelgar, W. P. 2990
 Snelling, C. M. 9172
 Snijder, B. 788, 3563, 3565, 3568, 3570, 3576
 Snoeck, D. 1801
 Snow, A. A. 7111
 Snowball, A. M. 213, 4870
 Snyder, R. G. 8660, 10257
 Snyder, R. L. 6779
 Snyman, G. C. 8942, 9875
 Snyman, J. C. 4588, 8942, 9875
 So, I. S. 10702
 So InSup 10702
 Soares, J. M. 1816, 8143
 Soares, N. B. 9973
 Soares Filho, W. dos S. 4517
 Sobeiha, A. K. 9513
 Sobhana, P. 9067, 9069, 9079
 Sobiczewski, P. 5105
 Sochacki, D. 5264
 Socias i Company, R. 1925, 3756
 Sodmergen 658, 739
 Soedjanaatmadja, U. M. S. 949, 2750
 Soemarno 6571
 Soetrisno 9989
 Soffer, T. 8968
 Sogawa, K. 8151
 Soguilon, C. E. 884, 9937
 Soh, W. Y. 5833, 8546, 10793
 Soh WoongY 8546
 Soh WoongYoung 5833, 10793
 Sohma, R. 8335
 Soika, G. 5272
 Soing, P. 1059
 Soja, G. 9521
 Sokolenko, A. 7679
 Sokolov, O. I. 5960
 Sokolova, M. V. 8576
 Sokołowska, A. 2330, 2519
 Solar, A. 3762, 5694, 7556
 Solárová, J. 10616
 Solarska, E. 5353
 Soldatini, G. F. 2614, 5043, 9504
 Soldatov, S. E. 1355
 Solel, Z. 3593
 Soliman, M. M. A. 3987
 Soliman, S. 4562
 Soliman, S. S. 4563
 Soliva, M. 3399
 Soljic, Z. 9860
 Soll, J. 1397
 Solomko, E. F. 6067
 Solov'ev, E. V. 3184
 Soltani, N. 2702
 Soltész, M. 7389, 9235
 Soltys, K. 2620
 Solymosi, P. 8211
 Som, M. G. 10392
 Soma, Y. 4802, 5406, 9918
 Somarriba, E. 1795
 Somasco, O. A. 4210
 Somasekharaiah, B. V. 4164
 Somerville, W. E. 7519
 Somhorst, D. 5255
 Sommer, H. J., III 5632, 6589
 Sommer, K. J. 268, 1237, 5761
 Somodi, G. C. 1433
 Somogyi, L. P. 10042-10043
 Somogyi, N. 9560
 Somogyi, T. 1085
 Somogyi, Z. 2799, 9121, 10047
 Son, J. K. 1538
 Son, K. C. 1535-1536, 6207
 Son, L. M. 1680
 Son, S. Y. 10655
 Son, Y. K. 3629, 9615
 Son JeongKeum 1538
 Son KiCheol 1535-1536, 6207
 Son LiMei 1680
 Son SeokYong 10655
 Son YongKoo 3629
 Son YoungKoo 9615
 Sondag, C. 4123
 Sonego, L. 9919
 Song, B. 8543
 Song, C. H. 2158, 10637
 Song, C. Y. 1630, 2385, 10621, 10637
 Song, G. C. 10139
 Song, I. K. 3419, 10725-10726
 Song, J. 10152
 Song, J. C. 9374
 Song, J. S. 6128, 10637
 Song, J. Y. 125, 189, 2883, 3986
 Song, K. S. 6255
 Song, M. J. 6502
 Song, N. H. 1630
 Song, S. Y. 10877
 Song, X. F. 9546
 Song, Y. C. 3203
 Song, Y. N. 1322
 Song Bo 8543
 Song ChangHoon 10637
 Song CheonHo 2158
 Song CheonYoung 1630, 2385, 10621, 10637
 Song GiCheol 10139
 Song InKyu 3419, 10725-10726
 Song JeongSeob 6128, 10637

- Song JinYao 125, 189, 2883, 3986
 Song JungChoon 9374
 Song KwangSeop 6255
 Song MingJun 6502
 Song NamHyun 1630
 Song ShuYin 10877
 Song XueFeng 9546
 Song YongChang 3203
 Soni, H. K. 8917
 Sonnenberg, A. S. M. 3339, 3341
 Sonneveld, C. 2797
 Sonoike, K. 8521
 Sonoke, S. 3560
 Sood, C. R. 4125
 Sood, D. R. 4954
 Soon, Y. K. 826, 8066
 Soosten, R. von 5553
 Sophia, M. 2137
 Soprano, E. 7734
 Sorce, C. 3108
 Sørensen, H. 2189
 Sorensen, I. B. 8395
 Sørensen, L. 5858
 Sorg, J. P. 3553
 Soria, N. 8241
 Soria, Y. 4800
 Soria Idrovo, N. 9869
 Soriano-García, M. 4642
 Sorin, T. 4013
 Sornsrivichai, J. 5496
 Sorrentino, G. 8789
 Sorribas, J. 4082
 Soršak, A. 7384
 Sortino, O. 1455, 8666
 Sorvari, S. 6485
 Sosa, L. 6987
 Sosa-Alvarado, F. 4257
 Sosa-Moss, C. 5250
 Soshnina, V. P. 2568
 Sosna, I. 8247
 Sosnina, M. V. 8263
 Sosnowska, D. 7814
 Sosnowski, A. 626
 Šoštaric, J. 9964
 Sotés, V. 8435
 Sotes-Ruiz, V. 9379
 Soto, A. 2610
 Soto, E. 8677
 Soto, S. S. 8132
 Soto Arenas, M. A. 10711
 Soto-Velazco, C. 10595
 Sottile, F. 3834
 Sottomayor, M. 8913
 Součková, D. 10616
 Souidan, A. A. 6218, 9274
 Soumaré, A. 10039
 Sounderrajan, T. 7936
 Sousa, M. V. 9106
 South Africa, South African Avocado Growers' Association 12, 2795
 South Africa, South African Litchi Growers' Association 1002
 South Africa, South African Mango Growers' Association 10045
 South Africa, Water Research Commission 10817
 Southward, G. M. 3246
 Southwick, S. M. 2006, 5664, 5687, 7449, 8235, 9253
 Southworth, A. L. 7077
 Souto, M. R. S. 4939
 Souty, M. 10184-10185
 Souza, J. C. 9600, 9955
 Souza, J. S. 6438
 Souza, M. da C. 3663
 Souza, M. de 8060
 Souza, P. V. D. de 8054, 8068
 Souza, R. F. 7789
 Souza, R. J. 7655
 Souza, T. J. D. 9029
 Souza, V. A. B. de 7801
 Souza Gonçalves, P. de 3097
 Souza Júnior, M. M. 6021
 Sovershenova, V. A. 10068
 Sowie, J. W. 4031, 4202
 Sowers, D. S. 1148
 Sowinska, M. 10721
 Soyer, J. P. 275
 Soyergin, S. 7920
 Söylemezoğlu, G. 308
 Soylu, A. 7555
 Spada, G. 7640, 9294-9295, 9298, 9302
 Spada, G. L. 3862, 9312
 Spadek, Z. E. 2527
 Spaeth, S. C. 7755
 Spalik, K. 2516
 Spanedda, L. 5387, 6623
 Spaner, D. 7844
 Spangler, S. M. 8300
 Spano, D. 8957
 Spanomitsios, G. 498
 Spanomitsios, G. K. 8751
 Sparks, D. 2978, 4846, 10244, 10246
 Spath, H. 6776
 Speleers, H. 7682
 Speranza, A. 9165-9166
 Sperry, W. J. 6031
 Spethmann, W. 5269, 7474, 8281
 Spicer, J. A. 1980
 Spiegelstein, H. 4288, 9675, 10713
 Spiers, J. M. 8413, 8417, 8587
 Spinner, C. 5795-5796
 Spira, T. P. 7111
 Splittstoesser, D. F. 10335
 Splittstoesser, W. 7666
 Splittstoesser, W. E. 2153, 3717, 5246, 6497, 7256
 Spoerke, J. M. 6024
 Spongberg, S. A. 1652, 3703, 9769
 Spooner-Hart, R. N. 1334
 Spotts, R. A. 2017
 Spraul, M. 6720
 Spravka, M. 7976
 Spreen, T. H. 7195
 Spring, J. L. 4911
 Springuel, I. 8027
 Spuntarelli, F. 2570
 Spurway, M. I. 2479, 4368
 Sreedevi, P. 8890
 Sreedhar, C. 2757, 10006
 Sreedharan, K. 9954
 Sreelatha, U. 8762
 Sreenarayanan, V. V. 10777
 Sreenath, H. L. 1803, 7295
 Sreenivasan, M. S. 2699
 Sreenivasan, T. N. 6388
 Sreenivasaprasad, S. 3334
 Sriam, S. 9858
 Srinivas, K. 10435
 Srinivasan, C. S. 4598
 Srinivasan, K. 2564
 Sriramachandrasekharan, M. V. 5082
 Srivastava, A. 433-434, 5967, 9537
 Srivastava, A. K. 1437
 Srivastava, G. C. 8691, 10974
 Srivastava, H. S. 1376
 Srivastava, K. 2159
 Srivastava, K. J. 10519
 Srivastava, L. S. 6250
 Srivastava, P. K. 10384, 10519
 Srivastava, P. S. 5331, 7169, 9848
 Srivastava, R. C. 4492
 Srivastava, S. K. 450, 2252
 Srivastava, V. K. 404, 7704, 10797
 Sruamsiri, P. 4464-4465
 St-Pierre, B. 4456
 Staats, D. 6152
 Staay, M. van der 3178
 Stabell, E. 8028
 Stabenheimer, A. 1571
 Stacey, N. J. 3423
 Staden, J. van 1306, 1706, 3124, 3319, 3508, 4460, 6860, 7026, 7030-7031, 7109, 9658, 9749, 9802-9803, 10409-10410
 Stadler, W. 8304
 Staenz, K. 196
 Stafstrom, J. P. 2254
 Stahler, M. M. 1204
 Stahnke, G. 4346
 Stahnke, G. K. 8803-8804
 Staiff, D. C. 188
 Stainer, R. 2884, 4760, 4785, 9178
 Stajković, M. 3047
 Stall, W. M. 3261, 9458
 Stamatov, I. 6618
 Stamenković, S. 7486, 7548
 Stamenković, T. 7486
 Stamp, N. E. 6024, 7815
 Štampar, F. 3762, 3799, 4789, 5647, 10104-10105, 10120
 Stampi, G. 2993
 Stamps, R. H. 3448, 4363, 5160
 Stancato, G. C. 7059
 Stančević, A. 2931
 Standardi, A. 630, 647, 1943, 2811
 Staneva, E. M. 1151
 Stanghellini, C. 1040
 Stanghellini, M. E. 10472
 Stanica, F. 6645
 Stănică, M. 9698
 Staniene, G. 3918
 Stankevičienė, D. 3329
 Stanley, C. D. 3265, 8643, 8693, 10933
 Stanley, C. J. 216-217, 3780, 7465
 Stanley, D. W. 2317, 3731, 5131, 6041
 Stanojević, V. 1075
 Stansly, P. A. 6022
 Stanton, R. W. 975
 Stanys, V. 3918
 Staples, C. R. 6767
 Stapleton, J. J. 5759, 5897
 Starbuck, C. J. 2045-2046
 Starck, J. R. 4216
 Starck, Z. 7818
 Štarha, R. 6159
 Starkey, M. W. 4803
 Starling, A. J. 1720
 Starman, T. W. 1529
 Starr, G. 6160
 Starrett, D. A. 5128
 Starska, K. 10069
 Stašková, I. 4265
 Stassen, P. J. C. 2578, 3565, 3568, 3570, 3576, 9976-9977, 10967, 10969
 Staub, T. 5609, 10338
 Staudt, H. 6989
 Staudt, G. 7579
 Staus, R. 4015-4016, 4447
 Stavroulakis, G. 222, 6658, 8401
 Steadman, K. J. 9923
 Steck, A. 5305
 Steck, E. 3215
 Stedje, B. 8784
 Steene, F. van de 442, 10450
 Steenis, M. J. van 407
 Steenwyk, R. A. van 2936, 9167, 9239, 9267, 9314, 9330, 9910
 Stefanelli, G. 1094
 Stefani, M. 6192
 Stefanini, M. 3042, 9387
 Stefano, G. de 9404
 Stefano, R. di 8441
 Steffen, B. 3335
 Steffen, K. L. 4940
 Steffens, M. 5315
 Stehr, R. 10189
 Stein, A. 1992
 Stein, R. L. B. 10027-10028
 Steiner, K. E. 4380
 Steinhardt, R. 796
 Steinkellner, S. 280
 Steinmetz, V. 7531, 10259
 Stenning, B. C. 1445
 Stephan, Z. A. 1453
 Stephen, P. R. 7209
 Stephens, B. W. 9525
 Stephenson, A. G. 2216
 Stephenson, P. 7748
 Stephenson, R. A. 6353
 Stępniewska, M. 2933
 Stermitz, F. R. 8781
 Stern, R. A. 4543, 9901
 Stern, W. L. 7054
 Sternbaum, B. 1448
 Sterner, O. 7852
 Sternieri, F. A. 6768
 Steudle, E. 2434, 5824
 Steurbaut, W. 3081
 Steuteville, R. 10671
 Stevanović, D. 7842
 Steven, D. 7560, 9336
 Stevens, C. 317
 Stevens, D. P. 960
 Stevens, J. F. 4359, 8876
 Stevens, M. M. 1731
 Stevens, P. J. G. 2906
 Stevens, P. S. 9336
 Stevens, R. M. 2077, 2096, 8459
 Stevenson, R. E. 9672
 Stevenson, T. G. 10246
 Stewart, A. 4044, 9642
 Stewart, A. J. 3471
 Stewart, J. G. 386
 Stewart, K. A. 6419
 Stewart, R. 6144-6148, 6151
 Steyn, E. M. A. 802
 Stiekema, W. J. 10728
 Stiles, H. D. 3920
 Stilio, V. di 8989
 Still, R. 10052
 Stimart, D. P. 6137
 Stinner, B. R. 8661
 Stino, G. R. 10083
 Stino, R. G. 9200
 Stirling, G. R. 2894
 Stirzaker, R. J. 7816, 9424
 Stobbs, L. W. 277
 Stock, W. D. 1655
 Stockel, J. 6710
 Stoćkus, A. 8728
 Stoffella, P. J. 1272, 1434, 1476, 7791
 Stoilov, G. 6618
 Stoimenova, I. 6813
 Stojanov, D. V. 2558
 Stojanovic, M. 316
 Stoll, M. 8479-8480
 Stoltzenberg, D. E. 6044
 Stommel, J. R. 9586
 Stomp, A. M. 4421
 Stone, B. A. 1500
 Stone, M. L. 5670, 6421
 Stoop, J. M. H. 1488, 3320, 8225
 Stoope, G. M. 5205
 Stoppini, A. M. 10602
 Storchi, P. 3967, 7612
 Storck, L. 2130
 Storey, J. B. 199, 2977
 Storey, R. 828
 Storlie, C. A. 1458, 4186, 7408
 Stösser, R. 2032, 6639, 7448
 Stottlemeyer, D. E. 6302
 Stoutemyer, M. R. 3739
 Stover, E. 6653
 Stoyanov, N. A. 3771
 Stoychev, S. 5754
 Stępczyńska, M. 8716
 Straatsma, G. 2343
 Strabbioli, G. 2948, 2992
 Strack, D. 8897, 9739
 Strain, B. R. 7069
 Strand, P. 7845
 Stranishvskaya, E. P. 7621
 Stransky, H. 5047
 Strasser, R. J. 5967, 9537
 Straten, B. van 10973
 Stratton, M. L. 4078
 Stratum, P. van 8632
 Strauss, P. A. 5006
 Straw, R. A. 3195, 3768
 Streb, P. 9505
 Streck, N. A. 6504, 10414-10415
 Street, J. 6147-6148
 Street, J. E. 1011
 Strefeler, M. S. 4289, 7009, 7877

- Streif, J. 4894, 9203, 9205, 9219
 Streitz, D. 3386, 9688
 Strid, A. 6867
 Strigl, A. W. 2070
 Strik, B. C. 9351
 Strik, H. 4796
 Strina, F. 6005
 Stringari, G. 1253, 2870, 3034, 3042, 3054, 3861, 3974
 Stringi, L. 5950
 Stritt-Etter, A. L. 4976, 6767
 Strnad, M. 10981
 Strniša, T. 10106, 10115
 Stroeken, J. J. G. 1528
 Strojny, Z. 5272, 8831
 Strong, W. B. 1678, 8908
 Strother, S. 4930, 9403
 Struik, P. C. 1331, 7707, 10441
 Strullu, D. G. 4574
 Struve, D. K. 6185, 6230
 Strydom, A. 3124, 10409-10410
 Strzałka, K. 7731
 Stuart, A. E. 7152
 Stuart, C. 5037
 Stubblefield, R. E. 2328
 Studer, H. E. 3943
 Studer Feusi, M. E. 1111, 1488
 Studman, C. J. 60, 7513, 10276
 Stufkens, M. 9342
 Stuker, H. 6006, 7792
 Stumpf, D. K. 10814
 Stupin, V. A. 4906
 Stür, W. W. 9072, 9074
 Sturbois, B. 5793, 5795
 Sturbois-Balcerzak, B. 3087
 Stushnoff, C. 6693
 Stutte, G. W. 122, 371, 6575
 Stutz, J. C. 2613, 9591
 Styer, E. H. 4255
 Styles, J. M. 4541
 Su, H. B. 5691
 Su, M. R. 5560
 Su, P. H. 9515
 Su, R. Y. 1103
 Su, Y. Q. 2549, 2755
 Su HongBing 5691
 Su MuhRong 5560
 Su PaiHsiang 9515
 Su RunYu 1103
 Su YinQuan 2549, 2755
 Suard, B. 3963, 6722
 Suárez, J. A. 305
 Suárez, M. 3635
 Suárez, M. P. 7245
 Suárez, N. 10495
 Suárez Sánchez, C. L. 9010
 Subash, N. 897
 Subbalakshmi, V. 4598
 Subbaraja, K. T. 4637
 Subbaramaiah, K. 4471
 Subbiah, K. 4225, 5075, 6926
 Subedi, P. P. 6338
 Suberville, C. 6980
 Subirade, M. 2259
 Subiza, J. 2139
 Subiza, J. L. 2139
 Subler, S. 10917
 Subrahmanyam, D. 9598
 Subramaniam, A. 7943
 Subramanian, D. 2439
 Subramanian, R. B. 782
 Subramanian, S. 9943
 Subranamiam, B. 10834
 Subroto, T. 949, 2750
 Subrtová, D. 6253
 Sucheta, R. K. 6891
 Suchkova, L. V. 1351
 Suckling, D. M. 2906, 3792
 Sud, A. K. 10455
 Sud, R. K. 11004
 Suda, I. 3737
 Suda, J. 298
 Sudha, C. G. 1693, 8926
 Sudhanshu Singh 5966
 Sudharama, I. M. 4678
 Sudharshan, M. R. 7991
 Sudhir Shukla 7173
 Sudiarto 6571
 Sudoi, V. 9097
 Sudol, M. 8842
 Suen, X. G. 4345
 Suen XiangGui 4345
 Suett, D. L. 3148
 Sueyoshi, K. 8563
 Sugahara, S. 10541, 10931
 Sugahara, T. 3331
 Sugai, E. 4791
 Suganuma, K. 3140
 Sugata Ghose 7289
 Sugawara, H. 6731
 Sugden, S. K. 10668
 Suge, H. 3218
 Sugha, S. K. 6451, 10372, 10534
 Sugihara, T. 455
 Sugimoto, M. 6771
 Sugimoto, T. 8563
 Sugimoto, Y. 8685
 Sugimura, Y. 6138
 Sugino, M. 4464-4465, 7158, 7162, 8026
 Sugita, N. 5874
 Sugito, Y. 7136
 Sugiura, A. 25, 2657, 6364, 9916, 10897
 Sugiura, N. 6168
 Sugiura, T. 4005
 Sugiyama, H. 1633
 Sugiyama, K. 912
 Sugiyama, M. 298, 8782
 Suh, H. S. 2262, 10780
 Suh, J. N. 10699, 10701
 Suh, J. T. 3321
 Suh, K. Y. 7715
 Suh, S. J. 6855
 Suh, S. K. 1279
 Suh HyungSoo 2262, 10780
 Suh JongTaek 3321
 Suh JungNam 10699, 10701
 Suh KyuYong 7715
 Suh SangKi 1279
 Suh SuJeoung 6855
 Suhag, L. S. 340
 Suhaila Mohamed 1774, 5522
 Suhayda, C. 833
 Suiro, V. 6208
 Sujatha, K. 1668, 10660
 Sujatha, M. 8930
 Sukhomud, O. G. 5983
 Sukhvir Kaur 6970
 Sukkau, I. 6136
 Sukkel, W. 9430
 Sukonthasing, S. 5807
 Sukprakarn, S. 4156
 Sukul, N. C. 7767
 Sul, J. H. 10722
 Sul JongHo 10722
 Sulgrove, S. M. 1623-1624
 Sulikeri, G. S. 1846, 3083, 5074, 10999-11000
 Sulladmath, V. V. 3734
 Sullivan, J. A. 8407
 Sultan Singh 10745
 Sultana, R. 2731
 Sulyok, J. 10641
 Suma, A. 6386
 Suma, B. 1561
 Sumanasena, H. A. 7298
 Sumata, K. 5041
 Sumi, S. I. 5834
 Sumi, Y. 6857
 Sumiati, E. 5784
 Sumita Dasgupta 5279
 Summers, C. G. 1892, 5897
 Summers, P. S. 4973
 Summers, W. L. 6910-6912
 Şümmü, G. 136, 159, 3610, 5625
 Sun, B. L. 5652
 Sun, B. Y. 11014
 Sun, C. 427, 3202
 Sun, D. G. 4502
 Sun, D. Y. 6274, 6958
 Sun, E. J. 1029
 Sun, F. L. 6633
 Sun, G. M. 2868
 Sun, H. L. 8932
 Sun, H. S. 5810
 Sun, J. H. 4129
 Sun, J. X. 2419
 Sun, L. J. 750
 Sun, Q. Q. 3795
 Sun, R. H. 2915
 Sun, R. J. 5810
 Sun, S. S. M. 9108
 Sun, T. J. 1133
 Sun, X. Z. 9171
 Sun, Y. 9103
 Sun, Y. K. 3014
 Sun, Y. W. 5864
 Sun, Y. Y. 3210
 Sun, Z. 8279
 Sun, Z. F. 2487
 Sun, Z. G. 4825
 Sun, Z. H. 5648
 Sun, Z. J. 3005
 Sun, Z. R. 728, 4283
 Sun, Z. T. 5979
 Sun BaoYu 11014
 Sun Ce 427, 3202
 Sun DaYe 6274, 6958
 Sun DingGuo 4502
 Sun EnJang 1029
 Sun FengLan 6633
 Sun HuanLiang 8932
 Sun HuiSheng 5810
 Sun JianHong 4129
 Sun JiXiong 2419
 Sun LiJun 750
 Sun QingQuan 3795
 Sun RuiHong 2915
 Sun RuiJie 5810
 Sun TaiJun 1133
 Sun XianZhong 9171
 Sun YanKun 3014
 Sun Yun 9103
 Sun YungWei 5864
 Sun YunYue 3210
 Sun ZeGang 4825
 Sun ZhaoFa 2487
 Sun Zhen 8279
 Sun ZhiHuan 5648
 Sun ZhuoTao 5979
 Sun ZiRan 728, 4283
 Sunagawa, K. 5406, 9918
 Sunagawa, M. 6978-6979
 Sunanda Chanda 10600
 Sundarababu, R. 10553
 Sundaram, K. S. 8344
 Sundaram, N. V. 1334
 Sundaram, R. 6010
 Sundaramoorthy, S. 9531
 Sundari, P. 6281
 Sundell, H. A. 10286, 10420
 Sundin, P. 3288, 7810, 9588
 Sundqvist, C. 5939
 Sundström, J. 10807
 Suneel Sharma 2835, 3984
 Sung, J. M. 1809-1810
 Sung, M. S. 2405-2406
 Sung, N. S. 8040-8041
 Sung, S. H. 10483
 Sung, W. B. 7086
 Sung MoonSuk 2405-2406
 Sung SiHeung 10483
 Sung WeiBang 7086
 Sungawa, K. 4802
 Sunil Kumar 855
 Sunila Khurana 11025
 Suntari, R. 7072
 Suo, B. H. 7171
 Suo BinHua 7171
 Suojala, T. 5601
 Suprasanna, P. 3646
 Supriya Langthasa 1664, 7205
 Supryn-Sweklej, S. 3934
 Suranant Subhadrabandhu 22
 Surendra Jogdand 2272
 Suresh, P. R. 942
 Suresh, S. 4621
 Suresh Baburaj, D. 5327
 Suresh Chand 10800
 Surga R., J. G. 6376
 Surjan Singh 545, 7788
 Surkenova, G. N. 392
 Sürmeli, N. 10564
 Surolia, A. 8114
 Suryanarayana, M. C. 6529
 Suryanto, S. 7647
 Susaki, S. 2657
 Susanto, E. 7265
 Sushil Kumar 7146
 Sushkova, Z. V. 2291
 Susmita Das 3189
 Suso, M. L. 7773
 Sutarya, R. 3238
 Suthanthirapandian, I. R. 1856
 Sutherland, P. W. 191
 Sutter, E. G. 2865, 7694
 Suttill, N. H. 5633
 Sutton, D. L. 5215
 Sutton, J. C. 8510
 Sutton, K. H. 2135
 Sutton, L. 2198
 Sutton, P. B. 1720
 Sutton, T. B. 5610
 Sutyaningtyas, H. 6443
 Suvachittanont, W. 1845
 Suvandzhieva, P. 3090, 10376
 Suwa, K. 1407, 5067
 Suwwan, M. A. 2630
 Suyama, T. 7490
 Suyanto, S. 9987
 Suzan, V. G. 2531
 Süzen, M. A. 544
 Suzuki, H. 6277
 Suzuki, J. 3489
 Suzuki, K. 9632
 Suzuki, M. 399, 3064, 6761, 7002, 8564, 10464
 Suzuki, N. 297, 3811
 Suzuki, S. 3489, 4150
 Suzuki, T. 2179, 2767, 4545
 Suzuki, Y. 6771
 Švagždys, S. 2890
 Svatoš, Z. 8219
 Svee, E. R. 2417
 Svenson, S. E. 5219
 Svensson, B. M. 6666, 7165
 Svoboda, K. P. 7400
 Svoboda, P. 10768
 Swain, D. 10388
 Swain, S. K. 6246
 Swaminathan, K. 2137, 6072
 Swaminathan, V. 4416
 Swamy, G. S. K. 8112
 Swamy, K. R. M. 1791, 7281
 Swamy, P. M. 752
 Swanson, B. T. 5563
 Swarbrick, J. T. 2506
 Swarnapriya, R. 9713
 Swart, D. 804, 10964
 Swart, D. J. 1753
 Swart, J. P. J. 5318
 Swartz, H. J. 1203, 6653
 Swarup, V. 1
 Sweeney, P. 9719
 Sweil, W. J. 8550
 Sweil WanJin 8550
 Swennen, R. 1780, 2673, 3643
 Swennen, R. L. 6377
 Swiader, J. M. 6780
 Swinburne, T. 7278
 Swinkels, H. A. T. I. 3341
 Swinton, S. 4750
 Swisher, M. E. 5373
 Swist-Swirski, D. 9193
 Switzerland, Eidgenössische Forschungsanstalt für Obst-, Wein- und Gartenbau 8196
 Sword, A. M. 3466
 Syah, I. 6988
 Syahril 7265
 Syamal, M. M. 7321, 8644
 Sydow, R. 8207
 Syed Abbas, N. 11025
 Syed Kamaluddin 6892
 Symons, H. R. 8434
 Synnott, D. M. 2432
 Synouri, S. 8988
 Sysoev, E. S. 6505, 6728, 7413
 Sytsema, W. 7979
 Sytsema-Kalkman, E. C. 9697
 Syvertsen, J. P. 4503-4504, 8063
 Szabados, I. 8515
 Szabó, A. S. 7643
 Szabó, T. 10188
 Szabó, Z. 7538, 7549-7550, 9235, 9248-9249, 9254, 9256, 9325
 Szafián, Z. 8775-8776

- Szafirowska, A. 2330, 2519, 2800
 Szakál, M. 7808, 8287
 Száková, J. 1293, 8219
 Szalai, J. 9040
 Szarek, S. R. 10679
 Szász, A. 1412, 10360
 Szauffer-Hajdrych, M. 875
 Szczepański, K. 6553
 Szczyglewska, D. 2569
 Szegedi, E. 284, 3060
 Szekely, I. 7484
 Szendrák, E. 8824
 Szendrey, G. 284, 3060
 Szendrey, L. 8474
 Szeőke, K. 2013
 Szewczuk, A. 8271
 Szigeti, Z. 9509
 Szigartyo, C. 1299
 Szklanowska, K. 2483
 Szklarczyk, M. 4967
 Szlachetko, D. L. 2453
 Szmidt, R. A. K. 3352
 Szot, I. 8320
 Szpunar, J. 7618
 Szűcs, E. 2950
 Szwedo, J. 1955, 2888, 8280
 Szwejdá, J. 1362
 Szyndel, M. S. 7658
 't Hart, H. 4359
 Tabanelli, D. 3881, 4838
 Tabata, M. 3489
 Tabata, T. 6976
 Tabei, Y. 10533
 Taber, H. G. 8223
 Tabuenca, M. C. 2840-2841, 5686, 6598
 Tacconi, M. 1209
 Tacconi, R. 4945
 Tachibana, N. 5513-5514, 7358
 Tachibana, S. 410, 5027, 7740
 Tada, M. 10754-10755
 Tadano, T. 10396
 Tadeo, F. R. 5384
 Tafoya, S. 2298
 Tagami, K. 5485
 Tagashira, A. 5262
 Tagliabue, S. 4897
 Tagliavini, M. 65, 2802, 2983, 2993, 3855, 5698, 7444
 Tagliente, G. 4912, 5746
 Tago, Y. 9024
 Taguchi, F. 4974
 Taguchi, H. 7720
 Taha, F. A. 8118
 Tahara, M. 4601
 Tahara, S. 9497
 Tahardi, J. S. 2729, 5469
 Tahir, S. S. 5321
 Tahira, K. 190
 Tai, C. Y. 2142
 Tai, Y. W. 1893
 Tai ChaoYing 2142
 Taillens, J. 3980, 4126, 5106
 Taira, S. 8993
 Tairbekov, M. G. 8613
 Taji, A. 1640
 Tajuddin 7143, 9835
 Tajuddin, I. 9072, 9074
 Tak, K. 8035
 Takabatake, K. 10598
 Takabe, K. 9804
 Takač, A. 3231, 8542
 Takáč, J. 1122-1123
 Takács, B. 10710
 Takács, F. 7493
 Takács, G. 10710
 Takács, H. M. 9452
 Takada, K. 2056
 Takada, M. 5739
 Takagaki, M. 8635
 Takagi, H. 5182, 7881
 Takagi, N. 8077
 Takagi, S. 6857, 7941
 Takagi, T. 8325
 Takahara, T. 4534, 5367, 5372, 6344, 9872
 Takahashi, C. 4436
 Takahashi, H. 3218, 6104
 Takahashi, J. 2213
 Takahashi, K. 2871-2872, 6821
 Takahashi, N. 5033, 5884, 5975
 Takahashi, S. 3687, 9088
 Takahashi, T. 4795, 8598
 Takaichi, S. 3186
 Takaiwa, F. 10533
 Takaki, H. 512
 Takakura, T. 346, 1901, 4058
 Takamatsu, Y. 3811
 Takamiya, K. 4148, 4151, 5028, 5916, 9804
 Takamura, T. 9694-9695, 10640
 Takamura, Y. T. 4446
 Takano, M. 3218, 7881
 Takano, T. 779
 Takao, H. 5438
 Takaoka, S. 4513
 Takasugi, M. 5009
 Takatsu, Y. 1563
 Takatsuji, T. 5371-5372
 Takatsuto, S. 6135, 6277, 7160
 Takaya, J. 4513
 Takayama, S. 4997
 Takayanagi, K. 9781
 Take, T. 5294
 Takeba, G. 5029
 Takebe, M. 3110, 8518
 Takeda, F. 10284
 Takeda, K. 7878
 Takeda, M. 8002
 Takeda, N. 9481
 Takeda, T. 612, 4059, 5185, 10403
 Takeda, Y. 2767, 8124
 Takehara, T. 6071, 6981
 Takei, A. 3392, 6138
 Takele, E. 6302
 Takemasa, K. 1650
 Takematsu, A. P. 2697
 Takemura, Y. 4513, 6335
 Takeno, K. 2484, 9669-9670
 Takeoka, G. R. 547, 549
 Takeuchi, H. 6794
 Takeuchi, J. 9481
 Takeuchi, M. 8796, 10653
 Takeuchi, T. 9450, 9624
 Takeuchi, Y. 415, 4144, 5026
 Takeyama, S. 1407, 5067
 Takiguchi, T. 4057
 Takio, K. 5033
 Takishita, F. 3758
 Takita, S. 7490
 Takizawa, N. 10589
 Takruri, H. R. 4004
 Takyu, T. 9092
 Talamucci, P. 3968
 Talanov, A. V. 5872
 Talanova, V. V. 1355
 Talasila, P. C. 56
 Talathi, J. M. 5463
 Talbot, D. 9578
 Talbot, M. 5855
 Talbot, M. T. 4965
 Talib, A. R. 1135
 Tallarico, R. 3512, 8016
 Talon, M. 8963
 Talpur, M. A. 2628, 2772, 6902, 8578
 Tam, N. F. Y. 3142
 Tam, P. L. 568
 Tamada, T. 7572
 Tamai, M. 512
 Tamai, N. 4366
 Tamaki, M. 6836
 Tamang, M. B. 11004
 Tamari, G. 10624
 Tamba, M. 2736
 Tamburino, A. 5443
 Tamponi, G. 4849
 Tamura, F. 2657, 8360, 10237
 Tamura, H. 5739, 6002
 Tamura, Y. 2833, 6380, 6380
 Tan, C. S. 501, 9290
 Tan, H. 9068
 Tan, H. G. 10839
 Tan, H. L. 945
 Tan, J. C. 10015
 Tan, L. I. 9998
 Tan, R. N. 119
 Tan, W. C. 3428
 Tan, X. J. 1835
 Tan, Y. A. 6436, 8155
 Tan, Y. H. 2359
 Tan, Z. W. 9042
 Tan, Z. X. 4345
 Tan HuiLang 945
 Tan JiCai 10015
 Tan Laylm 9998
 Tan WenCheng 3428
 Tan XinJie 1835
 Tan YewAi 6436
 Tan ZiXong 4345
 Tan ZueWen 9042
 Tanabe, K. 2657, 5168, 8360, 10237
 Tanaka, A. 3186, 4055, 4152
 Tanaka, H. 1265, 2067, 7529
 Tanaka, K. 178, 6901, 7712
 Tanaka, M. 703, 1169, 1214, 1904, 9694-9695
 Tanaka, S. 4181
 Tanaka, T. 5866, 9752
 Tanaka, Y. 2929, 3002, 3310, 6447, 8162
 Tang, C. 6428
 Tang, C. Q. 6619
 Tang, D. R. 2551
 Tang, G. H. 1902
 Tang, H. 1843, 5213, 9066
 Tang, J. 6274
 Tang, L. 2151
 Tang, M. K. 10980
 Tang, M. Z. 3801
 Tang, P. F. 1574
 Tang, R. J. 9331
 Tang, S. H. 1813
 Tang, W. 2417
 Tang, W. Q. 7234
 Tang, X. F. 8367, 10236
 Tang, X. Y. 3601
 Tang, Y. B. 2756
 Tang, Y. L. 1835
 Tang, Z. F. 2636
 Tang ChangQing 6619
 Tang Chi 6428
 Tang DeRui 2551
 Tang Hua 5213
 Tang Jun 6274
 Tang Lan 2151
 Tang MaoZhi 3801
 Tang PinFang 1574
 Tang RinJing 9331
 Tang ShaoHu 1813
 Tang WenQing 7234
 Tang XiaoYun 3601
 Tang YouLin 1835
 Tang YueBing 2756
 Tang ZiFa 2636
 Tangpakdee, J. 6447, 8162
 Tanigawa, T. 605, 2816, 5436
 Tanigoshi, L. 8415
 Taniguchi, K. 5834
 Taniguchi, M. 9799
 Taniguchi, S. 5516
 Taniguchi, T. 6103, 9745
 Tanimoto, E. 5058
 Tanimoto, S. 1632, 5197
 Tanino, K. K. 7838
 Tanji, A. 2806
 Tanker, M. 8766
 Tanrisever, A. 9244
 Tant, J. S. 4393
 Tanticharoen, M. 10816
 Tanvir Burni 10772
 Tao, H. Z. 2040, 2758, 2764, 11002
 Tao, L. Y. 10837
 Tao, Q. A. 11002
 Tao, X. Q. 4018
 Tao, Y. 6589
 Tao, Y. W. 1562
 Tao HanZhi 2040, 2758, 2764, 11002
 Tao QiAn 11002
 Tao XinQiu 4018
 Tao YiWei 1562
 Tapati Das 7198
 Tapia, J. 4280
 Tapinder Singh 9533
 Taplinskii, I. Z. 6726
 Tappeiner, P. 7452
 Tappertzhofen, S. 1425
 Tarabeih, A. M. 1557
 Taraborrelli, L. 7639
 Tarailo, R. 2076, 5749
 Tarakanov, G. I. 10373
 Tarazona, F. 8428
 Tardáguila, J. 3038, 7603
 Tárdea, C. 8462
 Tardieu, F. 3217
 Taruccci, S. 3974
 Tarengi, E. 254
 Tariq Mehmood 10540
 Tarkowska, J. A. 2215
 Tarmizi, A. H. 6433
 Tarmizi Hashim 4652
 Tarricone, L. 5746
 Tarutina, O. I. 3531
 Tashima, K. 2165
 Tashiro, S. 5874
 Tasker, J. C. 6493
 Tassoni, A. 6827
 Taştan, B. 2420
 Tatár, E. 5894
 Tatara, A. 10299
 Tatarenko, I. V. 5252
 Tatchell, G. M. 2443
 Tate, B. 8970
 Tate, K. G. 3867
 Tateishi, A. 7539
 Tateishi, J. 5848
 Tatsumi, J. 4646, 7362
 Tatsumi, Y. 5041
 Tatsuzawa, F. 1544, 1597, 4381, 6101, 6115
 Tatti, S. 8490
 Tattini, M. 2650, 3621
 Taufik, B. 6449
 Taupier-Letage, B. 1671
 Tavares, A. C. 6264
 Tavares, A. C. P. 7076
 Tavares, R. M. 1559
 Tavella, L. 1153
 Tavoosi, M. 6359
 Tavukçuoğlu, S. 9836
 Tawaray, K. 6753, 10382
 Tawfic, H. 3849, 3857
 Tawhid, A. 6842
 Taya, J. S. 510, 7668, 9554, 10521
 Taya, M. 344
 Tayade, G. S. 10431, 10832
 Tayde, G. S. 10833
 Taylor, A. G. 1260, 5930, 5949
 Taylor, A. J. 5582
 Taylor, B. H. 4837, 5108, 10217
 Taylor, D. C. 4115
 Taylor, E. R., Jr. 2965
 Taylor, F. W. 10054
 Taylor, G. 6849
 Taylor, J. 3441, 6143, 6148
 Taylor, J. L. 1335
 Taylor, J. M. 96
 Taylor, K. C. 6331
 Taylor, L. 96
 Taylor, L. P. 3401
 Taylor, M. 1637
 Taylor, N. 7919
 Taylor, N. P. 6157
 Taylor, R. W. 491-492
 Taylor, S. 4647-4648
 Tchamitchian, M. 533
 Tchana, E. 6405
 Teasdale, J. R. 6014, 9586
 Tedders, W. L. 4847
 Teeffelen, W. van 1108, 4759, 4762, 10231
 Teguo, P. W. 10328
 Teillet, P. M. 196
 Teisson, C. 30, 3644, 6400, 7260, 9932
 Teitel, M. 47
 Teixeira, A. H. de C. 11024
 Teixeira, D. M. C. 5929
 Tejada, M. 10513
 Tejwani, K. G. 1873
 Tekel, J. 4461
 Tekin, H. 8100
 Teklehaimanot, Z. 890, 5526
 Telaye, A. 5060
 Teles, F. F. F. 5445
 Telfer, A. 446
 Tellarini, V. 5755

- Tellería, A. 4032
 Tembely, D. 8171
 Temesgen, G. 7293
 Temmerman, L. de 9520
 Temple, S. 6011
 Temple, S. R. 4210
 Tenbrink, V. 591
 Tenbrink, V. L. 653
 Tendaj, M. 2273, 4955, 4957
 Teo, C. K. H. 928
 Teoh, C. H. 37
 Tepe, I. 1675
 Tepper, H. B. 7761
 Teppner, H. 1612
 Ter Hell, B. 9647
 Terabayashi, S. 4222
 Terada, K. 1407, 5067
 Terahara, N. 1558, 7002
 Terahata, T. 6135
 Terai, H. 7712
 Teramoto, H. 5029
 Téran, G. E. 7676
 Terán, Z. 4959
 Terán-Sarabia, G. 744
 Terao, H. 4795
 Terashima, I. 8521
 Terekhov, G. P. 6499
 Teren'ko, G. H. 7460
 Terés, V. 3475
 Tereshchenko, N. R. 4937
 Terlizzi, B. di 205
 Térouanne, E. 1969, 5620
 Terra, M. M. 10307
 Terra e Sole 9280
 Terras, F. R. G. 10458
 Terras, M. A. 4270
 Terrettaz, C. 5136
 Terrettaz, R. 1210, 10298
 Terry, E. 3263
 Terry, I. 129
 Terry, P. J. 6443
 Terui, K. 8918
 Terziński, D. 8761
 Terzis, S. 3624
 Tesema, C. 292, 299
 Teshima, T. 3489
 Teshler, M. P. 5614, 5760
 Tesi, R. 3512, 5842, 8016
 Tešić, D. 3037
 Tesoriero, L. 2197
 Tešović, Z. 2966
 Tessereau, H. 2698
 Tessier, D. 5498
 Tessier, M. 1326
 Testet, E. 4029
 Testillano, P. S. 2274, 4185
 Testolin, R. 8445
 Testoni, A. 4703, 4861, 4883, 4897, 7562, 9372
 Tetsumura, T. 9915
 Tetsuro Sanada 3772
 Teulon, D. A. J. 2962
 Teviotdale, B. L. 9167, 9191, 9239, 9267, 9293, 9323, 9330, 9910
 Tewari, J. D. 8084
 Tewari, R. K. 11018
 Tewari, R. P. 1441, 1501
 Tewari, R. S. 7132
 Tey, C. C. 8154
 Tezenas du Montcel, H. 3643
 Thailand, Development & Extension Unit of Fruit & Vegetable Production Unit in Northeast Thailand 4262
 Thakare, G. G. 5463, 6373
 Thakore, B. B. L. 7174, 10796
 Thakore, B. B. L. K. 7175
 Thakral, K. K. 5303
 Thakur, B. R. 6451, 8694
 Thakur, M. P. 527
 Thakur, P. C. 10379
 Thakur, R. C. 10883
 Thakur, S. 7180
 Thakur, S. S. 10485
 Thakur, V. S. 1087
 Thaler, P. 5507, 10001
 Thamburaj, S. 9552
 Thammabut, B. 9065
 Thampitakorn, F. 10705
 Thandapani, V. 1823
 Thangapandian, V. 2137
 Thangavelu, S. 9943
 Thankamani, C. K. 2517
 Thankamma, L. 6444
 Thanos, C. A. 1670, 9827
 Tharanathan, R. N. 8637
 Tharin, S. 7053
 Thatai, S. K. 8944
 Thattil, R. O. 896
 The, C. N. 5986
 Thébeau, G. 7833
 Theil, E. C. 5963
 Thein, U. A. 5808
 Theisen, I. 8886
 Themaboekje - Proefstation en Informatie- en Kenniscentrum voor de Akkerbouw en de Groenteteelt in de Vollegrond 8498
 Theocharopoulos, S. P. 2576
 Thévenier, C. 5351
 Theron, K. I. 3741-3742, 4330, 4524, 6130
 Thetford, M. 2377, 2501-2502
 Thévenin, J. M. 6394
 Thévenot, C. 538
 Thi Bach Tuyet Lam 1500
 Thiagarajan, C. P. 6897
 Thibaud, M. C. 2251
 Thibault, J. 1922
 Thibault, J. F. 8306
 Thiel, G. 4168-4169
 Thiel, S. 9131
 Thiele, A. 7678
 Thiele, G. F. 2924
 Thierfelder, H. 10395
 Thierry, C. 2698, 4602
 Thiéry, D. 10141
 Thimmappaiah 4589
 Thind, S. K. 2413-2414, 6886, 6893
 Thinggaard, K. 7872
 Thingstrup, I. 5018
 Thinh, L. V. 5347
 This, P. 8444
 Thivavarnvongs, T. 889
 Thole, H. H. 4972
 Thom, E. 5079
 Thomaj, F. 5429
 Thomann, M. 6531, 7481
 Thomas, B. 3397
 Thomas, C. 6823, 7741
 Thomas, C. G. 9949
 Thomas, J. 753, 3650, 7123
 Thomas, J. F. 2502
 Thomas, J. M. 1012, 1287
 Thomas, M. B. 2479, 4368
 Thomas, M. R. 1218, 8446
 Thomas, P. 6862, 7137
 Thomas, P. A. 3542, 7423
 Thomas, P. C. 4471
 Thomas, R. M. 5910, 8434
 Thomas, S. 7937, 10709
 Thomas, S. H. 1410
 Thomas, T. H. 3319, 6267
 Thomas, V. 944, 4640
 Thome, K. J. 1171
 Thompson, A. 10047
 Thompson, A. K. 7275, 7829, 10912
 Thompson, A. R. 3315
 Thompson, D. 7074
 Thompson, G. A. 4360
 Thompson, J. 7522
 Thompson, J. D. 5712
 Thompson, J. E. 2237, 4250
 Thompson, P. 1026
 Thompson, R. 3923
 Thompson, R. B. 6779
 Thompson, T. E. 2977, 8376, 9315
 Thompson, T. L. 1309, 4091, 4987-4988
 Thomsen, D. L. 3223
 Thomson, G. E. 8313
 Thomson, P. 10625
 Thomson, R. J. 6222
 Thornton, G. 9856
 Thorpe, S. A. 1911
 Thorpe, T. A. 7835
 Throop, J. A. 3806
 Thulin, M. 8784
 Thurston, C. F. 2344
 Thurston, G. S. 4105
 Thwaite, W. G. 2783, 2829, 9193
 Tian, C. F. 6573, 6630
 Tian, G. Y. 3546
 Tian, L. X. 2547
 Tian, M. S. 5878
 Tian, M. Y. 2598, 7206
 Tian, Q. M. 3893
 Tian, S. B. 738
 Tian, S. F. 1411
 Tian, S. P. 1989, 4531
 Tian, W. H. 3608
 Tian, X. M. 8619
 Tian, Y. C. 2755
 Tian, Y. H. 6051
 Tian, Y. R. 8562
 Tian CaiFang 6573, 6630
 Tian GengYuan 3546
 Tian LanXin 2547
 Tian MingYi 2598, 7206
 Tian QiMing 3893
 Tian ShiPing 4531
 Tian XueMo 8619
 Tian YaoHui 6051
 Tian YuanCheng 2755
 Tian YuRong 8562
 Tiasuwan, N. 1833
 Tibet, H. 10899
 Ticci, S. 2650
 Tiefel, P. 1503
 Tieman, D. M. 8694
 Tijskens, L. M. M. 9155, 10567, 10573, 10607
 Tikhomirov, A. A. 7738
 Tikhonov, B. M. 6066
 Tilio, R. 2365
 Tili, K. 871
 Tillberg, E. 5945
 Tillekeratne, L. M. K. 9081
 Tillett, N. D. 1475
 Tillett, R. D. 1475, 10169
 Tillett, S. S. 4674
 Tilmon, H. D. 491-492
 Tilt, K. 4392
 Tilt, K. M. 7774
 Timberlake, J. 1890
 Timm, E. J. 165, 10165, 10264, 10284
 Timmer, L. W. 7208, 9890, 10845
 Timmermann, B. N. 1702
 Timmers, A. C. J. 2325, 5141
 Timon, B. 3829
 Tindall, H. D. 1875
 Ting, K. C. 45, 1893, 1899
 Ting, L. X. 6971
 Ting, X. M. 7118
 Ting LiuXiao 6971
 Ting XinMing 7118
 Tipton, J. L. 4360
 Tirel, C. 1654
 Tirillini, B. 10602-10603
 Tiripapur, U. K. 2325, 4362
 Tirosh, T. 1643, 9686
 Tison, P. 8705
 Tisserant, B. 203
 Tisserat, B. 5557, 6494, 6754
 Tissier, A. F. 2186
 Tissue, D. T. 7069
 Tizsa, S. 9215
 Titov, A. F. 1355
 Titulaer, H. H. H. 8498, 9508
 Tiuterev, S. L. 8576
 Tiwari, H. N. 4042
 Tiwari, J. P. 9048
 Tiwari, R. 847
 Tiwari, R. J. 7988, 9818, 10585, 11020
 Tiwari, R. K. 2779
 Tiwari, R. S. 7670, 7796, 10369
 Tizio, R. 1227
 Tjamos, E. C. 1451, 3287
 Tjosvold, S. A. 8747
 Tkachenko, E. N. 8253
 Tkachuk, K. S. 10502
 Tlustoš, P. 1293
 Tobar, R. 9461
 Tobita, T. 6104
 Tobutt, K. 79
 Tocci, A. 3864, 3872
 Todoriki, S. 6096
 Todorov, I. 3232
 Toffanin, R. 5352
 Toffel-Nadolny, P. 2572
 Togashi, I. 6074, 6977, 8729, 8732, 10588-10589, 10594
 Togawa, M. 10299
 Tognoni, F. 3258, 4389, 5566, 5941
 Tohbe, M. 8482
 Toit, A. P. du 55, 804, 1753, 10964
 Toit, J. du 3741-3742
 Tojoko, S. 7535
 Tōkei, L. 9184
 Toki, K. 1558, 4300, 6110, 8796
 Tokuda, K. 10698
 Tokui, Y. 6043, 9619
 Tokuko, M. 3465
 Tokur, S. 6109
 Toldam-Andersen, T. B. 2875, 9201
 Toledo, V. M. 10063
 Tolibaev, I. 4122
 Tollin, G. 6767
 Tollner, E. W. 4049
 Tolman, J. H. 8492
 Tolvanen, A. 238
 Toma, M. 8907
 Tōma, N. 6821
 Toma, O. 4737
 Toma, O. K. 9176
 Tomar, R. K. S. 4434-4435
 Tomar, S. C. 4950, 5346
 Tomás-Barberán, F. A. 2260, 2661, 9467
 Tomati, U. 2355
 Tombesi, A. 211, 6645, 7249, 8986
 Tomchuk, G. N. 10502
 Tomer, E. 798, 803
 Tomilov, A. P. 2828
 Tomimaga, S. 8076
 Tomita, M. 6068
 Tomita, Y. 9308
 Tomitaka, Y. 7723
 Tomkins, A. R. 4868, 7560
 Tomlinson, H. 5526
 Tommonaro, G. 8688
 Tomotsune, H. 1563
 Tone, S. 344
 Tonesi, R. 8295-8296
 Tonetti, I. 4182
 Tong, C. B. S. 10563
 Tong, C. H. 3605
 Tong, D. Y. 3894
 Tong, D. Z. 3812
 Tong, Q. Q. 10756
 Tong, X. C. 1848
 Tong, X. J. 1340
 Tong ChangHua 3605
 Tong DaiYan 3894
 Tong DeZhong 3812
 Tong QiQing 10756
 Tong XiongCai 1848
 Tongaram, D. 5789-5790
 Tongsakul, S. 8070
 Tonini, A. 5859
 Tonini, G. 7552, 9303
 Tonneijck, A. E. G. 5933, 7744
 Tönnissen, E. L. R. T. M. 3339
 Tonutti, P. 3877, 9299
 Toorn, C. J. G. van der 10727
 Toorn, P. van der 1305
 Topal, A. 7902
 Topalov, V. 6265
 Topchiiska, M. 5650
 Topcuoglu, B. 6763, 6773, 6818, 6925, 6927, 7148
 Topic, J. 3035
 Topoleski, D. T. 2112
 Toponi, M. A. 6687
 Topper, C. P. 5466
 Toreu, B. 9022
 Torggler, B. 7471, 7481
 Torii, T. 8832
 Torija, E. 878
 Toro Restrepo, L. J. 11022

- Toroser, D. 8520
 Torrado, A. 3635
 Torre, C. de la 2138
 Torre-Boronat, M. C. de la 2074
 Torrecillas, A. 7200, 10091
 Torregrosa, L. 3955-3956, 4909, 6709, 10317
 Torrekens, S. 10458
 Torres, A. 4190
 Torres, C. J. 1715
 Torres, C. M. 5388
 Torres, F. 4583
 Torres, L. M. 5612
 Torres, P. 1644
 Torres, W. 5097
 Torres-Vials, M. 3956
 Tort, M. 6478, 6965, 7022
 Toselli, M. 2993, 3840, 3862, 5698, 7444
 Toshmatov, I. 5307
 Tosi, C. 9302
 Tosi, E. 245
 Tosi, T. 245
 Toth, E. T. 5319
 Tóth, G. 8636
 Toth, J. P. 5409
 Toth, K. F. 6959
 Tóth, T. 2826, 8283
 Tous, J. 8341
 Townson, J. K. 1720
 Toxopeus, H. 1662
 Toyama, S. 5031, 5034, 6782
 Toyama, T. 5029
 Toyoda, H. 248, 3944
 Toyoda, M. 5850
 Toyota, M. 8851
 Trainotti, L. 5080, 5663
 Traka-Mavrona, E. 498, 2296
 Tramontana, A. 4849
 Tramontano, W. A. 5956
 Tran, H. 704
 Tran Van Canh 10995
 Tränkle, L. 7635
 Trapatat, M. 6966
 Trappe, J. M. 3330
 Traub, O. 1385
 Traversi, M. L. 2650
 Travis, J. W. 3766, 3786
 Travisani, S. 6525
 Traxel, K. 5141
 Trębacz, K. 2411, 4123, 6111
 Trebel, M. 5474
 Treder, W. 4878, 8381
 Tredici, P. del 6496
 Treeby, M. T. 828
 Trehane, P. 3703
 Trematerra, P. 2897, 2900, 8295-8296
 Tremblay, N. 8021, 8679, 10491
 Trenholm, L. 7800
 Trenti, A. 740
 Trentini, L. 4179
 Trethowan, J. 2239
 Tretyn, A. 6999
 Treushnikov, V. M. 5908
 Treutter, D. 5618, 10089
 Trevan, M. 5120
 Trewavas, A. J. 3403
 Tri-Haryati 2729
 Tri-Panji 2684, 2729
 Tribulato, E. 8967
 Trigui, A. 8095, 10881, 10884
 Trigui, M. 4690
 Trikatoula, A. 2576
 Trillas, M. I. 9807
 Trillot, M. 2857, 7456
 Trimble, M. R. 402-403
 Trinh Thuong Mai 2667
 Trip, G. 6093
 Tripathi, D. 1950
 Tripathi, D. K. 7891
 Tripathi, P. C. 7327
 Tripathi, S. P. 6468
 Tripathy, P. 488, 1824, 3166, 8511, 8642, 9083
 Tripodo, P. 3196
 Trippi, V. S. 5946, 6852
 Tristan, J. 1909
 Trofimova, I. A. 5158
 Trofimova, S. A. 9516
 Troiani, R. de 6054
 Troisi, A. 10405
 Tromp, J. 103, 1114, 4761, 4782, 6576, 6580, 9309, 9661, 10128
 Troncoso, A. 7607
 Tronel, C. 7456
 Trost, P. 349
 Trotta, A. 203
 Trouvelot, A. 8206
 Trujillo, R. 7046
 Trumble, J. T. 9365
 Trumble, W. R. 4173
 Trumbule, R. B. 723
 Trunov, I. A. 4716, 7566
 Trunova, T. I. 5025
 Truscott, M. 787, 919
 Truter, A. B. 206
 Tryka, S. 5891
 Tsai, J. C. 8493
 Tsai, S. J. 4051-4052
 Tsai, W. T. 2450
 Tsai JinChuan 8493
 Tsai ShunJen 4051-4052
 Tsang, M. M. C. 591
 Tsao, P. H. 3488
 Tsao, R. 7685
 Tsavalos, A. J. 1703
 Tsay, C. C. 2374
 Tsay, H. S. 596, 2378
 Tsay ChingChien 2374
 Tsay HsinSheng 596, 2378
 Tsegaye, T. 443
 Tseng, S. H. 8741
 Tseng ShuHwa 8741
 Tshinyangu, K. K. 7854, 8735
 Tshokoeva, M. D. 10174
 Tsonev, R. 2926, 9240
 Tsonev, R. V. 10174
 Tsoneva, E. 9240
 Tsou, S. C. S. 4035
 Tsuboi, Y. 6319
 Tsubuku, T. 3099
 Tsubura, H. 1265
 Tsuchiya, M. 3597
 Tsuchiya, S. 1647, 6822
 Tsuda, T. 11027
 Tsueda, M. 6329
 Tsugita, A. 2149, 6767
 Tsuin, S. 2889
 Tsuin Shen 2889
 Tsuji, H. 3186, 5028-5029
 Tsuji, K. 398, 9420
 Tsuji, M. 3687, 9088
 Tsuji, T. 8758
 Tsujibo, H. 5850
 Tsujino, Y. 7878
 Tsujita, M. J. 10654
 Tsujita, T. 1681
 Tsukamoto, C. 455
 Tsukatani, T. 3738
 Tsukihashi, T. 2939
 Tsumuraya, Y. 5885, 6073
 Tsunekawa, H. 5163
 Tsunekawa, Y. 8539
 Tsurkanenko, N. G. 1192, 2043, 2072
 Tsurumi, S. 4081
 Tsuruta, H. 5867
 Tsuruta, T. 9670
 Tsushida, T. 6761
 Tsushima, K. 7723
 Tsutsui, H. 4464-4465
 Tsutsui, M. 9694
 Tsutsumi, J. 9308
 Tsuzuki, E. 6803
 Tsydendambaev, V. D. 6680
 Tsybal, A. A. 1975
 Tu, C. C. 6994
 Tu, J. C. 3290
 Tu, P. F. 4450
 Tu, Y. C. 1106, 2909
 Tu ChisnChyn 6994
 Tu PengFei 4450
 Tu YiCheng 2909
 Tuan, Y. L. 5124
 Tuck, H. C. 2682
 Tucker, G. A. 923
 Tucker, M. L. 1464
 Tude, Ya. A. 6025
 Tudela, J. 10144
 Tukey, L. D. 4755
 Tulbu, G. V. 5964
 Tuley, P. 7391
 Tuley de Silva, K. T. 8183
 Tulie, K. A. 1784
 Tullio, M. C. de 7952
 Tümen, G. 8018
 Tumminelli, R. 5386
 Tuna, N. 144
 Tuncelli, E. 171
 Tung, G. 3170
 Tupajić, P. 10352
 Tupý, J. 1109
 Tura, E. 9298
 Turan, Y. 3220, 6212
 Turc, O. 3217
 Turci, E. 2947-2948, 2992
 Turco, P. 2290
 Türemiş, N. 7585
 Turgeon, R. 6418, 9967
 Türk, R. 171, 183, 207, 373, 544, 4933
 Türksen, C. 4933
 Turnbull, C. 4541
 Turnbull, C. G. N. 8980
 Turner, D. W. 7252
 Turner, S. C. 1024
 Turner, S. T. D. 7350
 Turnwald, S. 4362
 Tustin, D. S. 85, 3780, 7465, 7494
 Tustin, S. 127
 Tüter-Erim, M. 3552
 Tuyji, O. 9836
 Tuzcu, Ö. 10824
 Tüzel, Y. 10587
 Twichin, B. 5982, 8335
 Twito, L. 6266
 Tworowski, T. J. 7974
 Tyler, H. H. 4399
 Tyson, T. W. 7774
 Tyystjärvi, E. 5023
 Tzeng, D. D. S. 7757
 Ubbenjans, A. 2362
 Uebera Jiménez, J. L. 8017
 Ubi, A. 6375
 Ucciani, E. 9117
 Uchida, N. 7305, 9956
 Uchida, R. 7116
 Uchida, S. 4587
 Uchidoi, T. 6821
 Uchikoba, T. 414, 6289
 Uchiyama, H. 4005, 9489, 10022
 Uda, A. 5167
 Uda, N. 6939
 Udalova, V. B. 2207
 Udalova, Z. V. 520
 Udaykumar, M. 2324
 Udoh, A. P. 6058
 Udovenko, G. V. 6025
 Udovidenko, L. P. 8051
 Udupa, K. S. 8130
 Ueber, E. 10611
 Ueda, H. 4366
 Ueda, J. 7714
 Ueda, Y. 537, 607, 835, 3099, 5399, 10638
 Uehre, P. 5281
 Uematsu, H. 1981
 Uematsu, S. 9717
 Uemukai, H. 4819
 Ueno, H. 10729
 Uesugi, S. 1697
 Uesugi, T. 7764
 Uggla, M. 4899
 Uhan, T. S. 3238
 Uhara, T. 1650
 Uhel, C. 1239
 Uher, A. 9561
 Uher, J. 3407
 Uhnak, K. S. 2399
 Uittien, J. J. 3307
 UK, Jersey Department of Agriculture and Fisheries 4673
 UK, National Institute of Agricultural Botany 5536
 UK, Overseas Development Administration 7387
 UK, Poisons Unit Guy's & St. Thomas' Hospital Trust 2839
 UK, Royal Botanic Gardens, Kew 2839
 UK, Silsoe College 9124
 UK, Society for Experimental Biology 8188
 Ukeda, H. 820, 1701, 4535, 5411, 8938
 Ullah, S. M. 5101
 Ullmann, J. 10616
 Ulrich, D. 3023
 Ulubelen, A. 8766-8767
 Ulubilir, A. 7777
 Ulusaraç, A. 8100
 Ulusoy, M. R. 1732
 Ulvinen, S. K. 89
 Um, N. Y. 3434
 Um, Y. C. 3243, 10466, 10935
 Um NamYoung 3434
 Um YeongCheol 3243, 10466, 10935
 Umale, S. B. 10433
 Umaña, E. 10880
 Umebayashi, M. 10364
 Umeda, S. 5492
 Umekawa, H. 8598
 Umekawa, M. 3177
 Umemoto, S. 5900
 Umeo, K. 6252
 Umesh, K. C. 1817
 Umeya, T. 190
 Umezawa, T. 9468
 Ünal, A. 9252, 9319, 9327, 9329, 10176
 Underhill, S. J. R. 1758
 Unelius, C. R. 6216
 Unnikrishnan, K. 4454, 7282
 Uno, A. 574
 Uno, M. 4124
 Unrath, C. R. 5603
 Unruh, J. B. 10676
 Unterhalt, B. 4474
 Unterholzner, S. 8929
 Uosukainen, M. 31
 Uozumi, N. 6243
 Upadhyay, S. 7768
 Upadhyaya, A. 1533
 Upadhyaya, J. 6624
 Upadhyaya, M. K. 8028
 Upadhyaya, R. C. 7998
 Upasena, S. H. 2117
 Upchurch, B. L. 3735, 3806, 6592
 Upham, B. L. 6940
 Upham, W. S. 668, 10675
 Uppal, D. K. 7450
 Upreti, K. K. 2324
 Urban, E. 138
 Urban, I. 7964, 8858
 Urban, L. 7964, 8858, 8860
 Urbani, G. 581, 6077
 Urbonas, R. 6734
 Urbonas, V. 3329
 Ureshino, K. 7596
 Uribe, E. 5931
 Uribe P., R. 10548
 Uriu, K. 995
 Urmil Verma 4951
 Uronen, K. R. 3271
 Urrestarazu, M. 8681-8682
 USA, American Camellia Society 5538
 USA, American Society for Enology and Viticulture 6484, 9125
 USA, American Society for Horticultural Science 1013, 2803, 5545, 9126
 USA, California Avocado Society, Inc. 5539
 USA, Cucurbit Genetics Cooperative 1346
 USA, Hawaii Macadamia Nut Association 1883
 USA, Holly Society of America, Inc. 23
 USA, Illinois State Horticultural Society 4669
 USA, North American Lily Society 11

- USA, North Central Regional Cooperative Project 4738-4740, 9180
- USA, Northern Nut Growers' Association 10060
- USA, Regents of the University of California 4065
- USA, University of California 3816
- USA, World Agricultural Outlook Board, USDA 1874
- Usai, M. 6345
- Usami, Y. 5850
- Usano Martínez, M. C. 7017
- Usenik, V. 10104-10105
- Usha, K. E. 9014
- Usha, R. 752
- Usha Rana 9526
- Usharani, M. V. 4045
- Ushchekov, A. T. 1459, 4230
- Ushida, C. 4555
- Uslu, S. 9237
- Ussahatanonta, S. 10326
- Usta, E. 600
- Usta, S. 7148
- Ustyugov, V. M. 8212
- Usui, T. 7363
- Utashiro, K. 4842-4843
- Uthaiiah, B. C. 2521, 7134
- Uthaiabutra, J. 5496
- Utkhede, R. 6563
- Utkov, Yu. A. 6642
- Utrilla, L. 2138
- Utsunomiya, N. 3826, 8151
- Utumi, M. M. 7185-7186
- Uwins, P. 10628
- Uyemoto, J. K. 995, 2936
- Uygun, N. 1732
- Uzunov, N. 5562
- Vacante, V. 3291-3292
- Vaccaro, C. 2651
- Vacha, F. 446
- Vachhani, M. U. 7667
- Vachon, G. 233
- Vachūn, Z. 10173, 10177
- Váci Felhősné, E. 9249, 9256
- Vadhwa, O. P. 63, 8587
- Vahab, M. A. 9558
- Vahidy, A. A. 3091
- Vainstein, A. 4512, 6477
- Vaintraub, I. 10486
- Vaissière, B. 2996
- Vaissière, B. E. 1814, 4594
- Vaithialingam, R. 1254
- Vakulenko, V. V. 8212
- Val, J. 2873, 2951-2952, 2957, 5658
- Valdés, F. 6282
- Valdes, M. E. 3681
- Valdés Estrada, M. E. 10888
- Valdez, J. A. 1416
- Valdez Hernández, T. 5013
- Valdivia-Alcalá, R. 5999
- Valdivieso, R. 2139
- Valencia, J. 1817
- Valenta, R. 5119
- Valenti, L. 3031, 3041
- Valentova, O. 538
- Valenzuela, H. R. 7711
- Valenzuela, J. L. 323-324, 6416, 8638, 9043
- Valenzuela, M. P. 10025
- Valenzuela, O. 4219
- Valenzuela B., J. 7542
- Valenzuela-González, J. 9019
- Valera, A. 7245
- Valerio, M. 2257
- Valério Filho, W. V. 3516
- Valia, R. Z. 1142, 9914
- Valiente, C. 7541
- Valiente, J. I. 3594
- Valiente, R. 8966
- Válio, I. F. M. 10579
- Valk, H. C. P. M. van der 2312, 5577, 10573
- Valkanias, G. N. 3283
- Vallania, R. 300, 1138, 3959
- Valle, F. 3620
- Valle, N. del 6314
- Vallejo, A. 9464
- Vallejo, O. 2119
- Vallejo, V. R. 1307, 4072
- Vallis, S. 5448
- Valme, G. M. 9376
- Valova, M. 9778
- Valterova, I. 6216
- Van Aartwijk, J. 8195
- Van Amstel, A. N. M. 7672
- Van Antwerpen, A. W. J. 2819
- Van Bel, A. J. E. 9153
- Van Bortel, J. 7309
- Van Bruggen, A. H. C. 366, 6914
- Van Cutsem, P. 5140
- Van Daele, G. 130, 10135
- Van de Geijn, F. 1124, 6593, 10146
- Van de Goossen-Geijn, H. M. 1673
- Van de Merwe, A. P. 9153
- Van de Peppel, A. C. 9696
- Van de Pol, P. A. 1631, 5270-5271, 7094
- Van de Sanden, P. A. C. M. 3307
- Van de Steene, F. 442, 10450
- Van de Zande, J. C. 3079
- Van den Berg, C. G. J. 4115
- Van den Berg, M. A. 8091
- Van den Berg, W. 5061, 5823
- Van den Berg-De Vos, B. 3387
- Van den Boom, T. 4015-4016
- Van den Brande, K. 6799
- Van den Broek, R. C. F. M. 4982
- Van den Eijnde, J. 10136
- Van den Ende, W. 7682, 9457
- Van den Heuvel, W. J. A. 5870
- Van den Houwe, I. 3643
- Van den Hurk, B. J. J. M. 9400
- Van der Bank, H. 10680
- Van der Bank, M. 10680
- Van der Burg, W. J. 396, 8652
- Van der Cingel, N. A. 1862
- Van der Drift, C. 3347-3348, 3351, 4268, 6064
- Van der Ham, M. 8201
- Van der Heijden, G. W. A. M. 3341
- Van der Heijden, R. 4413
- Van der Hoek, H. 6586
- Van der Kinderen, G. 3461
- Van der Krieken, W. M. 5205, 10727
- Van der Maas, R. 1082-1083, 4773, 6552, 10122
- Van der Meer, P. 8723
- Van der Meulen-Muisers, J. J. M. 9706
- Van der Mheen, H. J. 8901
- Van der Plas, C. H. 339
- Van der Plas, L. H. W. 651, 6131
- Van der Salm, T. P. M. 10727
- Van der Staay, M. 3178
- Van der Toorn, C. J. G. 10727
- Van der Toorn, P. 1305
- Van der Valk, H. C. P. M. 2312, 5577, 10573
- Van der Veer, P. 5255
- Van der Voort, M. E. 10923
- Van der Walt, J. J. A. 5174, 5318
- Van der Walt, M. 806, 3570, 7196, 9977, 10967
- Van der Werf, A. 8498, 10439-10440, 10451
- Van der Westhuizen, A. J. 5932
- Van der Zwet, T. 6628
- Van Dieren, M. C. A. 6536-6537
- Van Dijk, C. J. 5933, 7744
- Van Dijk, W. 3076
- Van Doorn, W. G. 2488, 4427, 6208, 9789, 10607, 10646
- Van Driesche, R. 7954
- Van Duren, M. 6057
- Van Egmont-Florian, D. 1036
- Van Eyk, J. H. 795
- Van Gelder, H. 9696
- Van Gemert, J. 2821
- Van Greuning, M. 2336, 2347
- Van Griensven, L. J. L. D. 2341, 2343, 3339, 3341, 3347, 3350-3351, 4268, 6064, 7848
- Van Hartingsveldt, H. J. 5604
- Van Hasselt, P. R. 5110
- Van Henten, E. J. 2167
- Van Holst, G. J. 552, 631
- Van Horen, L. G. J. 2341
- Van Houten, Y. M. 8632
- Van Hove, L. W. A. 8843
- Van Huizen, R. 5982
- Van Huylenbroeck, J. M. 689, 6163, 7027
- Van Ieperen, W. 4228, 6934
- Van Jaarsveld, E. 10677
- Van Klink, J. W. 10766
- Van Konijnenburg, A. 4032
- Van Kruistum, G. 4068, 4982
- Van Labeke, M. C. 3413
- Van Laere, A. 7682, 9457
- Van Leeuwen, A. A. 8567
- Van Leeuwen-Haagsma, W. K. 8201
- Van Lenteren, J. C. 987, 4141
- Van Leth, P. 10150, 10281
- Van Leuven, F. 10458
- Van Loon, P. C. C. 3341
- Van Meeteren, U. 9696
- Van Moolenbroek, J. 3127, 3498
- Van Noordwijk, M. 4991, 10039
- Van Noort, W. M. H. 2341
- Van Oeveren, J. C. 5110, 9706
- Van Oosten, A. A. 1190
- Van Oosten, J. J. 1462
- Van Os, E. A. 4068, 5565
- Van Peer, A. 3451
- Van Pijlen, J. G. 6008, 8653
- Van Ranst, E. 1843, 9066
- Van Remortel, E. 4773
- Van Rensburg, L. 9664
- Van Rensburg, P. J. J. 5397
- Van Roestel, A. J. J. 2341
- Van Rooijen, H. 10231
- Van Rooijen, W. 1162
- Van Rooy, W. W. L. 1891
- Van Rossum, M. W. P. C. 6131
- Van Sambeek, J. W. 2033
- Van Schagen, J. G. 277
- Van Schaik, A. 1121, 6586, 9220, 10156
- Van Schaik, A. C. R. 7502
- Van Staden, J. 1306, 1706, 3124, 3319, 3508, 4460, 6860, 7026, 7030-7031, 7109, 9658, 9749, 9802-9803, 10409-10410
- Van Steenis, M. J. 407
- Van Steenwyk, R. A. 2936, 9167, 9239, 9267, 9314, 9330, 9910
- Van Straten, B. 10973
- Van Stratum, P. 8632
- Van 't Leven, J. 3736
- Van Teeffelen, W. 1108, 4759, 4762, 10231
- Van Volkenburgh, E. 2250
- Van Voorthuysen, T. 686
- Van Wijk, C. A. P. 2195, 3076, 5854
- Van Wyk, A. E. 9718
- Van Wyk, B. E. 4453, 10680
- Van Zyl, J. L. 3561
- Vanachter, A. 1014
- Vandana Joshi 7182
- Vandana Sharma 5337
- Vandemoortele, J. L. 6249, 6268
- Vanden Berghe, C. 27
- Vandendriessche, H. 5844
- Vandenwijngaert, S. 1088
- Vander Kloet, S. P. 8420
- Vandermieren, K. 9520
- Vanderplank, J. 7977
- Vanderschelden, C. 5844
- Vandewalle, X. 9226, 9616
- Vandina Mohan 7169
- Vaneková, Z. 8469
- Vanerwegen, J. 7578
- Vang-Petersen, O. 9356
- Vangossom, H. 3123
- Vani Dzhavaid Akhmed 7705
- Vanmechelen, A. 8290
- Vannucci, D. 8981-8982
- Vanoli, M. 182, 185, 194, 1983, 3885, 4861
- Vanongeval, L. 5844
- Vanooost, N. 1016, 1373, 1885, 5547
- Vanparys, L. 1017, 1292, 1319-1321, 1887, 2123, 2177-2178, 7402, 7660-7662, 7697-7698
- Vansuyt, G. 2192, 7721
- Vantiegheem, H. 2905
- Varallo, G. 508
- Varanini, Z. 5665
- Varela, D. 5349
- Varela, J. 3671
- Varela-Losada, S. 2139
- Varga, A. 5895
- Varga, D. M. 2017, 2973, 5679, 8371
- Varga, I. 5894-5895
- Varga, S. S. 6045
- Vargas, G. 8447
- Vargas-Albores, F. 6155
- Vargas C., I. 2574
- Varghese, A. 942
- Varghese, M. 9071
- Varghese, T. M. 10535
- Varghese, Z. 6589
- Varghese, Z. A. 5632
- Varma, B. 9532
- Varón, R. 10144
- Varoquaux, F. 5986
- Varoquaux, P. 5986
- Varseveld, G. W. 1204, 1374
- Vartak, V. D. 6529
- Vartapetian, B. B. 7760
- Vasara, T. 31
- Vasconcellos, M. A. da S. 5383
- Vasilakakis, M. 253, 256
- Vasilakakis, M. D. 150-151, 246
- Vásquez, C. 7338
- Vasseur, J. 360, 1303, 4980
- Vasudeva, R. 7928
- Vasyukova, N. I. 520
- Vats, R. 519, 6932
- Vauclare, P. 8614
- Vaughan, B. 7527
- Vaute, G. 1671
- Vavřková, S. 4461
- Vavilin, D. V. 5023
- Vavrina, C. S. 5090, 6022, 6411, 6913
- Vawdrey, L. L. 3669
- Vaysse, P. 7456, 7468
- Vázquez, G. 6987
- Vázquez, V. N. 10945
- Vázquez de Ramallo, N. E. 10290
- Vecchia, F. dalla 393
- Vecchia, P. T. della 7839
- Vecchio, M. 5123
- Vedamuthu, P. G. B. 1276-1277, 9434
- Vedie, R. 2348
- Veena Savalgi 9635
- Veer, P. van der 5255
- Veerasamy, S. 780, 7187, 7374, 7947
- Veeresh, G. K. 5007
- Veerkar, P. D. 5463
- Vega, E. 8467
- Vega M., A. 6510
- Vega-Villasante, F. 8830
- Vegro, C. L. R. 8135
- Vegvári, G. 8260
- Veierskov, B. 1649, 2504
- Veignie, E. 6748
- Veijer, H. 4735, 10087
- Veillon, J. M. 1654
- Vekemans, X. 2390
- Velayudhan, A. 5852
- Veldman, F. J. 5362
- Velemis, D. 1187, 2991, 7559
- Veličković, M. 1118, 8270
- Velišek, J. 6797
- Veljković, B. 2011

- Velliangiri, P. 577
 Vellozo, J. 9061, 10025
 Vemmos, S. N. 1973
 Venditti, M. E. 5078, 7313
 Vendrell, M. 7277, 9204
 Venegas V., A. 3006, 7593
 Venere, D. di 7563
 Venezia, A. 3666
 Venkataraman, N. S. 4416
 Venkataramu, M. N. 9942
 Venkatasubba Reddy, D. 5635
 Venkatesalu, V. 8166
 Venkatesan, K. 1767
 Venkatesha, J. 6260
 Venner, R. 822
 Venter, N. 4639
 Ventura, A. 3485
 Ventura, J. A. 9003
 Ventura, M. 3881, 4838
 Venturi, P. 1126
 Venugopal, M. S. 4621
 Vera, J. 7343
 Veramendi, J. 10872
 Verbondsnieuws 8738
 Vercammen, J. 98, 186, 10108, 10136, 10140, 10229
 Vercauteren, J. 10328
 Vercesi, A. 3049, 6708
 Verdum, B. 1673
 Verdegaal, P. S. 3952
 Verdeil, J. 2690
 Verdeil, J. L. 1798-1799
 Verdejo Lucas, S. 4082
 Verdu, A. M. C. 7686
 Verdugo, M. 6012, 7799
 Vereshbaranj, I. 2966
 Vereshchagin, A. G. 6680
 Verga, P. 1006
 Vergano, G. 208, 1138, 1929, 3959
 Vergara, J. A. 10555
 Vergari, G. 6360
 Verhaar, M. A. 7736
 Verhaegh, J. 4734
 Verheij, E. W. M. 2776
 Verhemeldonck, J. 5685
 Verhoeven, A. S. 708-709
 Verhoyen, M. 1314
 Verkerke, R. H. J. 7709
 Verkerke, D. R. 396
 Verlet, N. 8183
 Verlinden, A. 228, 5722, 5724-5725, 10293
 Verlodt, I. 9146
 Verma, D. P. 9094
 Verma, S. C. 1691
 Verma, T. S. 10379
 Verma, U. 4951
 Vermeer, E. 651
 Vermel', D. F. 5597
 Vermeulen, H. 5592, 5636
 Vernhet, A. 6716
 Vernière, C. 10956
 Vernieri, P. 5941
 Vernon, P. R. 5901
 Vernooy, C. J. M. 2821, 3495
 Verplancke, H. 2157
 Verpoorte, R. 3711, 4413
 Verreault, R. 233
 Verreydt, J. 543, 6590, 6951, 10566
 Verschaeren, P. 9146
 Verschaeren, P. C. M. 41
 Versini, G. 1256, 6720
 Verstrecken, L. 7531
 Vertriest, I. 10052
 Vertucci, C. W. 420, 1393
 Verzilin, A. V. 8265
 Vesel, V. 8093
 Vesper, J. 7093
 Vesk, M. 1742
 Vestergaard, B. 1032
 Vetter, J. 5149, 9627
 Vetter, Y. 6061
 Vettermann, S. 6591
 Veyret, Y. 2453
 Vezvaei, A. 73
 Vianello, A. 2249, 9536
 Vicchi, V. 4719, 6629
 Vicente, O. 2274
 Vicenti, A. 7564
 Victor, J. 9231
 Vidal, D. 4166
 Vidal, S. 7710
 Vidaud, J. 1235, 2101, 2104
 Vidéki, R. 10641
 Vidrih, R. 7504, 7508, 9208, 9299, 9917
 Vidyadhar 2596
 Viegi, L. 3539
 Vieira, C. 5928-5929
 Vieira, R. D. 10991
 Vieira, R. F. 5929
 Vierhuis, E. 6579
 Vierling, E. 3216
 Vieth, J. 2440
 Vieths, S. 1113, 6349
 Vietnam, National APAN Secretariat 984
 Viggiani, G. 1457
 Vigil, J. 4804, 8277
 Vigliola, I. 6840
 Vignani, R. 6683, 8989
 Vigneau, J. L. 10225
 Vigneault, C. 2188
 Vij, S. P. 7935, 7942, 7945
 Vij, V. K. 2590, 4497
 Vijai Deb 6434
 Vijayakumar, K. R. 941, 9069, 9079
 Vijayakumar, N. K. 8923
 Vijayamma, J. 619
 Vijaykumar Savalgi 9635
 Vilegas, J. H. Y. 5341
 Vilela, E. F. 6435
 Viles, A. L. 8920
 Viljoen, A. M. 5318, 10680
 Viljoen, M. 6584
 Villain, L. 10926
 Villalardo, E. 3873
 Villalobos, F. J. 5428
 Villani, A. 1094
 Villani, M. G. 2427
 Villar, R. 4162
 Villares, A. E. 5649
 Villarreal-Rivera, L. 757
 Villavicencio R., L. 6424
 Villegas, M. 6987
 Villegas Monter, A. 9871, 9877-9878
 Villemur, P. 860
 Villeneuve, F. 8700
 Villiers, E. A. de 3596
 Villiers, E. E. de 4478, 6309, 10975
 Villiers, O. T. de 8433
 Villora, G. 9039
 Vimala, P. 5809, 5821, 5832
 Vinay Singh 4024, 10444
 Vinayagamurthy, A. 6010
 Vince-Prue, D. 3397
 Vincenot, D. 6334
 Vincent, A. 4594
 Vincent, C. 5736, 10125
 Vincent, G. 2386, 8906
 Vincent, J. F. V. 3353
 Vincent, J. S. 9454
 Vincieri, F. F. 2105, 8490
 Vinciguerra, H. 5360
 Vinciguerra, H. F. 6300
 Vingras, L. 9463
 Viniestra-González, G. 10597
 Vinkler, M. 10531
 Vinod, K. K. 4640, 9073
 Vinodini Reddy 1916
 Vinoth Thomas 944
 Viougeas, M. A. 4391
 Virender Kumar 10745
 Virendra Nath 8231
 Virendra Singh 7183
 Viret, O. 3748, 3751, 3980, 6712, 8470
 Viršček-Marn, M. 3762, 4789
 Virumäe, K. 7862
 Visai, C. 182, 185, 194, 1983, 3885, 4861
 Vishal Sharma 7945
 Visone, A. 9912
 Visser, C. L. M. de 2132, 5823
 Visser, G. J. 787, 919, 1745
 Viswanathan, R. 10777
 Viswanathan, K. 4455
 Viswanathan, T. V. 3655
 Vitale, C. 3914
 Vitanova, I. 4857-4858, 5683, 9320, 9326
 Viteri, P. 8241
 Viithana, D. W. 7357
 Viti, R. 1181, 2031, 5655, 9246
 Vitzthum, O. G. 3662
 Vivek Dixit 847
 Vivek Mitter 2564
 Vivek Pandey 2240
 Vivekanandan, O. S. 6762
 Viviani, C. 10342
 Vizzotto, G. 2959, 3859, 5665, 7530
 Vizzotto, V. J. 759, 6006, 7734
 Vlachonassios, C. 253, 460-461
 Vlahou, A. M. 140
 Vlíková, H. 3096
 Vleeshouwers, L. M. 3718
 Vodyanitskaya, V. I. 7442
 Voesenek, L. A. C. J. 2312
 Voet, H. 9901
 Vogel, E. F. de 9760
 Vogel, G. 3175
 Vogel, H. J. 7835
 Vogelmann, T. C. 1395
 Vogels, G. D. 3349, 3351, 4268, 6064
 Vogels, J. W. P. M. 10076
 Vogrin, A. 7535
 Vogt, G. 6223
 Vogt, G. F. 6223, 7184
 Vogt, H. 6533, 7422
 Vogt, T. 3401, 9739
 Voigt, G. 7286
 Voigt, J. 1796, 7285-7286
 Voigt, T. B. 8806
 Voiland, A. 3340
 Volk, G. M. 9967
 Volkenburgh, E. van 2250
 Volkova, E. K. 7738
 Volkova, R. I. 9517
 Volpato, M. M. L. 4639
 Volpe, B. 3033
 Volpe, C. A. 2295
 Volpe, D. 2644
 Volschen, C. G. 9394
 Voltolina, G. 355
 Volz, R. K. 4798, 7494
 Von Berg, G. L. 8512
 Von Broembsen, S. L. 1659
 Von der Mark, K. 4362
 Von Haselberg, C. 7194
 Von Lieres, A. L. 3522, 5322
 Von Mollendorff, L. J. 206, 2974
 Von Reis, S. 10041
 Von Soosten, R. 5553
 Von Willert, D. J. 3453
 Vonshak, A. 10816
 Voogt, W. 3384
 Voordeckers, A. 1064, 1127-1128
 Voort, M. E. van der 10923
 Voorthuysen, T. van 686
 Voragen, A. G. J. 6579
 Vorhees, D. J. 7644
 Voroney, R. P. 2161
 Voronina, E. P. 2529
 Vörös, G. 8629
 Vorsa, N. 1197, 9351
 Vos, C. H. R. de 3257, 6008
 Vos, J. 1331, 7707, 8498, 10441
 Vos, J. G. M. 474, 3235, 3238
 Voskresenskaya, O. L. 9681
 Voss, P. 5047
 Vostal, J. 1293
 Voulgaropoulos, A. 2524
 Vouyoukalou, E. 3618, 6361
 Vouzounis, N. A. 3071, 8500, 8513, 8549
 Vovides, A. P. 2493
 Vovlas, C. 1157
 Vox, G. 40
 Voyiatzis, D. G. 4547
 Vračar, L. 2925
 Vrat, D. 10381
 Vré, L. de 4338
 Vredenberg, W. J. 686
 Vrees, O. 5202
 Vrgoč, P. 5260
 Vries, D. P. de 4401
 Vries, H. S. M. de 2312, 2318, 5577
 Vries, I. M. de 8528
 Vries, X. de 1857
 Vroom, M. J. 1515
 Vroomen, C. O. N. de 625
 Vršek, I. 9640
 Vrugtman, F. 3703, 9777
 Vu, H. 704
 Vu, J. C. V. 4515, 5366
 Vujančić-Varga, D. 2966, 3852
 Vulsteke, G. 442, 1015-1016, 1373, 1885-1886, 5547, 10055
 Vural, M. 8018
 Vuylsteke, D. 1780, 2673, 3648, 9000, 9002
 Vuylsteke, D. R. 3642, 6377
 Vyas, A. 781, 3209, 3691, 5518-5519, 11017
 Vyas, A. V. 6281
 Vyas, J. 5944
 Vygodin, V. A. 7675
 Vyrikov, V. A. 6025
 Vysotskaya, O. N. 7589
 Wachira, F. N. 3685
 Wachowicz, I. 8709
 Wachtel, M. 7
 Wacquant, C. 10
 Wada, K. 4366, 5117
 Wada, M. 2431, 5220, 6252
 Wada, N. 458
 Wada, S. 4081
 Wade, N. 5529
 Waechter-Kristensen, B. 3288, 7810
 Wagatsuma, T. 6753, 10382
 Wagenbach, K. 5568
 Wagenmakers, P. S. 1068, 1946, 4763, 10143
 Wagner, A. M. 2387, 4295
 Wagner, G. J. 4462
 Wagner, K. G. 2539, 3213
 Wagner, M. J. 2387
 Wagner, R. 2101, 2104
 Wahba, H. 8029
 Wahba, H. E. 9837-9838
 Wahba, M. F. 4040
 Wahdan, H. 10463
 Wahid, P. A. 1794, 6385, 9820-9821
 Waidhofer, A. 7049
 Wainwright, H. 4586, 7275, 7278
 Wais, A. 10217, 10220
 Waisel, Y. 5537, 6415
 Waiyanatha, U. P. de S. 2743
 Wajant, H. 5223, 6448
 Walash, M. I. 528
 Walczak, R. T. 9134
 Walde, S. J. 1090
 Waldner, W. 3760, 4724, 6514
 Waldo, G. S. 5963
 Waldrón, K. 7541
 Walgenbach, J. F. 2184
 Walker, C. J. 1367
 Walker, G. E. 276, 283
 Walker, G. P. 9599
 Walker, J. R. L. 5622, 9202
 Walker, J. T. 7423, 10610
 Walker, J. T. S. 2906, 9296
 Walker, M. A. 2078, 6688
 Walker, N. A. 8589
 Walker, R. P. 2212, 8226
 Walker, S. 724
 Walker, T. 4657
 Walkowiak, A. 875
 Wall, K. M. 5633
 Wallace, D. H. 5942
 Wallace, J. S. 10039
 Wallace, R. S. 1585
 Waller, J. M. 5481
 Waller, P. 2464
 Walling, M. 5493
 Wallinga, J. 499
 Wallsgrove, R. M. 7144, 9498
 Walsh, D. B. 250
 Walsh, K. B. 8904, 9063
 Walsh, T. M. 6693

- Walt, J. J. A. van der 5174, 5318
Walt, M. van der 806, 3570, 7196, 9977, 10967
Walter, A. 10904
Walter, B. 1220
Walter, D. E. 8069
Walter, G. 6835
Walter, M. T. M. T. 5542
Walter, S. I. 4770
Walter, W. 586
Walters, S. M. 1547, 3699
Walton, E. F. 3910, 3913, 8397
Walton, M. P. 987
Wamocho, L. S. 4556, 8990
Wample, R. L. 3985
Wan, P. J. 8587
Wan, T. X. 9879
Wan, Y. F. 10856
Wand, J. F. 4369
Wand JiFang 4369
Wander, J. G. N. 8813, 8901
Wander, M. 2298
Wang, A. 3684
Wang, A. F. 4863
Wang, A. G. 1773, 10737
Wang, A. M. 1323
Wang, B. L. 4160
Wang, B. M. 3812
Wang, B. Q. 1751
Wang, B. S. 9984
Wang, C. 3546, 8892, 10692
Wang, C. 2636
Wang, C. L. 10167
Wang, C. P. 9423
Wang, C. R. 3895, 3897
Wang, C. S. 1810, 2408
Wang, C. T. 1696
Wang, C. Y. 417, 5040, 5925
Wang, D. J. 955
Wang, D. S. 8279
Wang, D. Y. 4473, 6595
Wang, F. 9102, 10253
Wang, F. C. 9174
Wang, F. Z. 10471
Wang, G. 4645
Wang, G. Q. 10402
Wang, G. X. 1188, 2041, 10274
Wang, G. Y. 3801, 4557
Wang, H. C. 6974
Wang, H. F. 1070
Wang, H. J. 10621
Wang, H. L. 2120
Wang, H. M. 2845
Wang, H. S. 8954
Wang, J. 6502
Wang, J. B. 10452
Wang, J. E. 9283
Wang, J. F. 4561
Wang, J. K. 4557
Wang, J. L. 2408, 2658, 4020, 9883, 9926
Wang, J. M. 8995
Wang, J. S. 4296
Wang, J. X. 2874, 9175
Wang, J. Y. 1680
Wang, J. Z. 167
Wang, K. 5673
Wang, K. F. 3876
Wang, K. L. 2015
Wang, K. M. 6994
Wang, K. Y. 10385
Wang, L. 2874, 10016
Wang, L. C. 3893
Wang, L. D. 1310
Wang, L. H. 7014
Wang, L. J. 1636, 3631, 3828, 4109, 10061
Wang, L. L. 3188
Wang, L. P. 1312, 10207
Wang, L. S. 8543
Wang, L. W. 2374
Wang, L. Z. 3254
Wang, M. 9284
Wang, M. L. 2758, 4514
Wang, M. Q. 1497, 2760, 8802
Wang, M. X. 8314
Wang, N. 7257, 8108
Wang, N. Y. 5108
Wang, P. 2394
Wang, Q. 50
Wang, Q. C. 1927
Wang, Q. M. 9175
Wang, Q. Y. 158, 1131
Wang, R. 869, 1063, 1133
Wang, R. B. 6975
Wang, R. C. 1030
Wang, R. K. 3611
Wang, R. Z. 2656, 4559
Wang, S. 5942, 10775
Wang, S. F. 5695, 6792
Wang, S. G. 1063, 3896, 6633
Wang, S. J. 326, 6500, 7415
Wang, S. M. 4089, 4863
Wang, S. P. 8486, 10227
Wang, S. S. 955, 2768
Wang, S. Y. 7577
Wang, S. Z. 1117
Wang, T. 6578, 10508
Wang, T. C. 4249
Wang, T. Q. 4403
Wang, T. Y. 10227
Wang, W. 1285
Wang, W. C. 2773
Wang, W. J. 2987
Wang, W. X. 6595
Wang, X. 10665
Wang, X. C. 4170, 6958, 10344
Wang, X. F. 921, 4511, 7336, 10208
Wang, X. H. 1831
Wang, X. J. 6171, 8619
Wang, X. L. 1037
Wang, X. M. 6171
Wang, X. N. 827
Wang, X. P. 2766, 2770, 2854, 7371, 9904
Wang, X. S. 2552
Wang, X. W. 4174
Wang, X. X. 7240
Wang, X. Y. 4110, 8891
Wang, Y. 36, 1280, 3356, 4143, 4633, 6460, 8309
Wang, Y. B. 3052
Wang, Y. G. 5580
Wang, Y. H. 3692, 5027, 8449
Wang, Y. J. 1847, 5873, 10197
Wang, Y. L. 3631, 3828, 3837, 5673, 5981, 10061
Wang, Y. M. 5490
Wang, Y. N. 2907
Wang, Y. P. 6786, 6788
Wang, Y. Q. 302, 1854, 2560, 2705, 4680, 6757
Wang, Y. S. 10016, 10171
Wang, Y. T. 1606, 7940
Wang, Y. X. 3405, 10168
Wang, Y. Y. 5652, 10207
Wang, Y. Z. 1449, 1685, 3821
Wang, Z. 122, 6575
Wang, Z. H. 886, 1786, 2764, 3651
Wang, Z. L. 10227, 10891
Wang, Z. M. 4865, 9333, 9883, 10268, 11016
Wang, Z. N. 1851
Wang, Z. Q. 4824
Wang, Z. R. 2008
Wang, Z. S. 6974
Wang, Z. T. 4450
Wang, Z. X. 2676, 5703, 8279, 10790
Wang, Z. Y. 2995, 3234, 10238, 10270
Wang, Z. Z. 4145
Wang AiFen 4863
Wang AiGuo 1773, 10737
Wang BaoMing 3812
Wang BingLiang 4160
Wang BiQing 1751
Wang BiSheng 9984
Wang ChangChun 2636
Wang Chen 3546, 10692
Wang ChengRong 3895, 3897
Wang ChunTao 1696
Wang DengYuan 6595
Wang DeYao 4473
Wang DongSheng 8279
Wang Fang 9102
Wang Fei 10253
Wang FengZhen 10471
Wang FuCheng 9174
Wang Gang 4645
Wang GuangYi 3801
Wang GuiXi 1188, 2041, 10274
Wang GuiYou 4557
Wang GuoQiang 10402
Wang HongLong 2120
Wang HuaSong 8954
Wang HuiMin 2845
Wang HyunJin 10621
Wang JauYueh 1680
Wang JiaMin 8995
Wang JianBo 10452
Wang JianLi 4020, 9926
Wang Jie 6502
Wang JiKui 4557
Wang JiLong 2658
Wang JinE 9283
Wang JingFeng 4561
Wang JinZhang 167
Wang JiShan 4296
Wang JiXiang 9175
Wang KaiYuan 10385
Wang KueiMei 6994
Wang KuiLing 2015
Wang Kun 5673
Wang KunFan 3876
Wang LeiCun 3893
Wang Li 10016
Wang LiangJu 3631, 3828, 10061
Wang LianSheng 8543
Wang LiDe 1310
Wang LiJuan 4109
Wang LiJun 1636
Wang LiLing 3188
Wang LiPing 1312, 10207
Wang LiWen 2374
Wang LongHua 7014
Wang LongZhi 3254
Wang MeiLing 4514
Wang Min 9284
Wang MingLong 2758
Wang MingQi 8802
Wang MingQin 2760
Wang MingXiang 8314
Wang MouQiang 1497
Wang NaisYin 5108
Wang Ning 7257
Wang Peng 2394
Wang Qian 50
Wang QiaoChun 1927
Wang QingMei 9175
Wang QingYa 158, 1131
Wang Ran 1063, 1133
Wang RenCai 1030
Wang RenZi 2656, 4559
Wang RongBen 6975
Wang ShanGuang 1063, 3896, 6633
Wang ShaoJin 6500, 7415
Wang ShengMei 4863
Wang ShiMao 4089
Wang ShiPing 8486
Wang ShouSheng 2768
Wang Shuang 10775
Wang ShuFen 6792
Wang ShuZhen 1117
Wang Su 5942
Wang Ting 6578
Wang TingQiang 4403
Wang WeiXue 6595
Wang WenJiang 2987
Wang WuChang 2773
Wang XiangHe 1831
Wang XianJu 8619
Wang XianPing 2854, 7371, 9904
Wang XiaoFeng 921, 7336
Wang XiaoJing 6171
Wang XiaoMing 6171
Wang XiaoPing 2766
Wang XiaoYun 8891
Wang Xin 10665
Wang XingPing 2770
Wang XingWu 4174
Wang XingYuan 4110
Wang XiouFang 10208
Wang XiuLan 1037
Wang XiuSong 2552
Wang XueChen 4170, 6958, 10344
Wang XueXiu 7240
Wang YaGu 5580
Wang YaLai 5981
Wang Yan 4633
Wang YanQuan 1854
Wang YaoZhi 1685
Wang YeLin 3631, 3828, 3837, 10061
Wang Yi 1280, 4143
Wang YiJun 1847
Wang YinPo 6786
Wang YinTung 1606, 7940
Wang YiSheng 10171
Wang YongHui 3692
Wang YongJian 5873
Wang YouMing 5490
Wang YouNian 2907
Wang YouQun 2560, 4680, 6757
Wang YouZhi 3821
Wang YueHai 8449
Wang YueXin 3405
Wang YuHai 5027
Wang Yun 6460
Wang YunJun 10197
Wang YuQin 302, 2705
Wang YuShu 10016
Wang YuYing 5652, 10207
Wang ZaiMing 10268
Wang ZeHua 886, 1786, 3651
Wang ZeNong 1851
Wang ZhaoXin 10790
Wang ZheLi 10891
Wang ZhengMin 9333
Wang ZhengTao 4450
Wang ZhengXun 2676
Wang ZhenHeng 2764
Wang ZhenXia 5703
Wang ZhenXiang 8279
Wang ZheZhi 4145
Wang ZhongYan 2995
Wang ZuoRong 2008
Wang ZuoYi 3234
Wange, S. S. 7657, 7905, 9620, 9715
Wann, E. V. 8650
Wannet, W. J. B. 3347
Wanyoko, J. K. 957, 6453
Waqar Ahmad 9740
Warade, S. D. 4034
Ward, A. 7191
Ward, C. R. 4340
Ward, G. 8127, 9618
Ward, R. G. 9606
Ward, W. D. 8845
Wardlaw, L. R. 4231
Wardle, D. A. 2098, 4000, 6698, 6703
Wardowski, W. F. 4527
Ware, A. 2607
Ware, A. B. 2606
Ware, G. H. 7982
Warghane, G. S. 4617
Warmhardt, R. D. 6945
Warmenhoven, M. G. 3389, 3393
Warmund, M. R. 2044-2046, 4744
Warn, R. M. 7759
Warncke, D. D. 7836
Warner, F. W. 7599
Warner, H. L. 8268, 8800
Warner, J. 6538
Warner, K. 7683
Warnier, O. 8251
Warren, J. 5468
Warren, M. K. 2090, 5762
Warren, R. 10714
Warren, S. L. 2501-2502, 4399
Warrington, I. J. 216, 3001, 3780, 7465, 9338
Warton, M. 8318
Warui, C. M. 9097
Waskar, D. P. 8488
Wasono, M. A. J. 5577
Waspo, P. 7265
Wassenaar, R. W. 3348
Wasserman, B. P. 2142
Wasternack, C. 5014, 5118, 7732
Waszczuk, K. 6798

- Watad, A. A. 903
 Watada, A. E. 61, 4118, 4666, 4788, 4799, 5578, 6582, 9455, 9586
 Watanabe, I. 5512
 Watanabe, J. 164, 823, 844, 9402
 Watanabe, K. 117, 1505, 9481, 9829
 Watanabe, M. A. 5902
 Watanabe, N. 7081, 7363, 10756
 Watanabe, S. 8993, 10382
 Watanabe, S. I. 5486
 Watanabe, T. 4629, 5691
 Waters, W. E. 4084
 Watkins, A. J. 2418
 Watkins, C. B. 2009, 2584, 4790, 4798
 Watkins, R. M. 9721
 Watkinson, A. R. 10577
 Watling, R. 6528
 Watson, C. E., Jr. 4342
 Watson, D. M. 6318, 8071
 Watson, J. 5528
 Watson, M. 662
 Watson, P. 10279
 Watt, M. P. 10778
 Watts, H. M. 5283
 Watts, J. E. 9394
 Wawrzyńczak, P. 8338, 9341, 9343, 9347
 Wearing, C. H. 9194-9195
 Weatherhead, M. A. 712
 Weaver, J. E. 2426
 Weaver, S. E. 499
 Weaver, S. L. 6121
 Webb, D. T. 7870-7871
 Webb, M. G. 1639
 Webb, R. 9767
 Webb, S. E. 1364
 Weber, A. 10506
 Weber, B. 296, 3627
 Weber, E. 2094, 4015-4016, 4447
 Weber, G. 3658
 Weber, M. 3970, 9710
 Weber, O. B. 8061, 9062
 Webster, A. 3744
 Webster, A. D. 2794, 2937-2938, 3745-3746
 Webster, F. 2478
 Webster, J. I. 6280
 Webster, K. A. 9397
 Webster, T. 78-79
 Wechzung, F. 2848
 Weckx, J. E. J. 6848
 Wee, Y. C. 7039
 Wee YeowChin 7039
 Weekley, C. W., Jr. 5523
 Weeralal, J. L. K. 2743
 Weerasinghe, M. H. G. 7356
 Weersink, A. 8492
 Wegrzyn, A. 2194
 Wegrzyn, T. 2998
 Wegrzynowicz-Lesiak, E. 7901, 7922
 Wehner, F. C. 6309
 Wehner, T. C. 2219, 5924
 Wehtje, G. R. 6221
 Wei, J. 124, 2016
 Wei, J. C. 7168
 Wei, J. M. 6765
 Wei, M. 2185, 4113
 Wei, Q. P. 3719, 3773
 Wei, S. L. 4320
 Wei, W. L. 8043
 Wei, X. J. 1847
 Wei, Y. Q. 1445, 10912
 Wei, Z. M. 3317
 Wei JiaMian 6765
 Wei JinCheng 7168
 Wei Jun 124, 2016
 Wei Min 2185, 4113
 Wei QinPing 3719, 3773
 Wei SanLi 4320
 Wei WenLin 8043
 Wei XinJie 1847
 Wei YuQing 10912
 Wei ZhiMin 3317
 Weibel, F. P. 4780, 8267
 Weiershäuser, L. 5553
 Weigel, H. J. 2225
 Weigt, F. 5221
 Weiner, H. 2148
 Weinstein, J. D. 1367
 Weinzierrl, R. 9431
 Weir, R. G. 4663
 Weis, K. G. 2006, 5664, 5687, 8235
 Weisbeek, P. J. 3155
 Weiss, D. 5130, 6038, 6477, 7112
 Weiss, J. 1771
 Weiss, M. 1097
 Weissenbach, P. 3050
 Weissich, P. R. 2455
 Weisz, M. 871
 Weksler, A. 5127
 Welbaum, G. E. 4086, 7700, 8142, 10425
 Welch, N. 9365
 Welch, N. C. 250
 Welker, O. A. 389
 Welker, W. V. 9288-9289
 Welkie, G. W. 5997
 Wellburn, A. R. 8558, 10411
 Wellburn, F. A. M. 8558
 Weller, S. C. 500
 Wells, B. 3423
 Wells, G. H. 2972
 Wells, O. S. 1895
 Welsch, J. 5234
 Welty, C. 1417, 5847
 Wen, C. L. 606
 Wen, G. 2161
 Wen, G. C. 9171
 Wen, I. C. 8991
 Wen, Z. Q. 1601, 1603-1604
 Wen ChiLuan 606
 Wen GuoChen 9171
 Wen IenChie 8991
 Wen ZhaoQing 1601, 1603-1604
 Wendel, L. F. 7067
 Wendelin, S. 3029
 Wendt, N. 9690
 Weng, J. H. 4012, 5772, 6139, 6787, 8499, 8656
 Weng JenHsien 4012, 5772, 6139, 6787, 8499, 8656
 Wenner, A. 3295
 Wepener, C. 6584
 Werbrouck, A. 8190
 Werbrouck, S. P. O. 690
 Weretilnyk, E. A. 4973
 Werf, A. van der 8498, 10439-10440, 10451
 Wergin, W. P. 4788
 Werlemark, G. 4899
 Werner, D. 10395
 Werner, D. J. 5666
 Werner, K. 10657
 Werner, M. 3482
 Werner, M. R. 5721
 Wernett, H. C. 6996-6997
 Wertheim, S. J. 1068, 1072, 1164, 4758, 6545, 9328, 10131, 10234
 Wery, J. 3217
 Weryskzo-Chmielewska, E. 8716
 Wesche-Ebeling, P. 4257
 Wesley-Smith, J. 1393
 Wesołowska-Janczarek, M. 9346
 Wessang, J. 4902-4903
 Wesson, C. 4173
 West, C. J. 5283
 West, J. M. 7144
 West, M. M. 1052
 West, M. S. 4285
 West, P. F. 5409
 Westcott, M. P. 6599
 Westercamp, P. 7553
 Westerdahl, B. B. 9191, 9239, 9267, 9273, 9293, 9314, 9323, 9330, 9365, 9395, 9510
 Westerdijk, C. E. 8526
 Westerlanden, J. 4731
 Westerweele, K. 10096, 10243
 Westgate, P. J. 5852
 Westhuizen, A. J. van der 5932
 Weston, G. D. 9179
 Weston, L. A. 500, 2201, 7071
 Westra, P. 5819, 9442
 Wetering, H. J. M. 2341
 Wettich, K. 5553, 6989
 Wever, G. 8567
 Whan, J. H. 900
 Whang, H. S. 1158
 Whang, Z. H. 5963
 Whang ZhiHai 5963
 Wheeler, H. C. 10574
 Wheeler, R. M. 371, 7691-7692
 Wheeler, T. R. 1262, 9425
 Whicker, F. W. 2107
 Whiley, A. W. 4477, 6513, 10958
 Whiley, T. 4575
 Whipker, B. E. 1549
 Whipps, J. M. 5846
 Whitaker, B. D. 4255, 6582, 7823
 White, A. G. 3899
 White, B. D. 2222
 White, B. J. 9992
 White, D. 10067
 White, I. R. 4168
 White, J. E. J. 1878
 White, J. M. 5133
 White, M. W. 5709
 White, N. S. 4169
 White, P. F. 7847
 White, R. 8770
 White, R. H. 666
 White, S. N. 1911
 White, T. L. 6997
 Whitefield, P. 9118
 Whitehead, C. S. 10713
 Whitehouse, C. 7915
 Whitehouse, C. M. 622
 Whiteley, G. M. 2814
 Whitfort, L. 10865
 Whiting, F. M. 5445
 Whitmore, A. P. 8498
 Whitmore, T. C. 7106
 Whitwell, T. 4318, 8844
 Wiberg, E. 926
 Wichers, H. J. 480
 Wick, L. 5329
 Wick, R. L. 670
 Wickramasinghe, P. J. 7298
 Wickremasinghe, R. L. 7364, 7366-7369
 Widders, I. 5114
 Widders, I. E. 1370, 3190
 Widjanarko, S. B. 9994
 Widmer, A. 3775, 5638, 8266
 Widmer, W. W. 5363
 Widodo 6844
 Widodo, S. E. 10868
 Wiebe, H. J. 4953
 Wiederholt, R. J. 6044
 Wiederkehr, M. 259
 Wieneke, J. 2202-2204
 Weniarska, J. 4771, 4787
 Wienk, J. F. 2534
 Wierzbicka, B. 9569
 Wierzbicka, M. 2129
 Wiese, K. L. 1428
 Wiesman, Z. 861
 Wiest, S. C. 10675-10676
 Wietoska, H. 7677, 9453
 Wiid, M. 4566
 Wijayanti, L. 6100
 Wijerathnam, S. W. 7278
 Wijeratnam, R. S. W. 4586
 Wijeratne, M. A. 7357
 Wijesekara, G. A. S. 2740-2741, 5506
 Wijk, C. A. P. van 2195, 3076, 5854
 Wijnands, D. O. 3699
 Wilberg, V. C. 6371
 Wilch, G. A. 4973
 Wilcke, C. 9214
 Wilcox, C. J. 6997
 Wilcox, G. E. 1815
 Wilcox, W. F. 9368
 Wilde, H. D. 7085
 Wildung, D. K. 5708
 Wiles, G. 312
 Wiles, G. C. 5811, 5826
 Wilford, R. 593
 Wilfred, G. J. 5198, 5266, 6996-6997
 Wilke, I. 4418
 Wilken, A. 6729
 Wilkens, R. T. 6024, 7815
 Wilkie, A. S. 9095, 10017
 Wilkin, P. 3447
 Wilkins, B. T. 4009, 6730
 Wilkins, M. B. 5243
 Wilkinson, D. M. 6184
 Wilkinson, E. C. 10607
 Willats, W. G. T. 6049
 Willemot, C. 3308, 4250-4251
 Willemse, M. T. M. 5921
 Willenbrink, M. E. 5244
 Willert, D. J. von 3453
 Willey, C. 3337
 Williams, D. J. 196
 Williams, D. M. 7694
 Williams, D. S. 3418
 Williams, J. D. 592, 707, 2377
 Williams, K. 5677
 Williams, K. A. 9665
 Williams, L. E. 1251, 3954
 Williams, L. R. 2513
 Williams, M. H. 1742, 9788
 Williams, M. W. 127-128
 Williams, P. J. 10345
 Williams, R. 1640
 Williams, R. D. 6954
 Williams, R. J. 436
 Williams, R. R. 1556
 Williamson, G. 1592, 5231-5232, 10684
 Williamson, J. D. 1488, 3320, 8225
 Williamson, J. G. 4496, 7578, 8055
 Williamson, V. G. 4408
 Williers, P. 3726
 Willigen, P. de 3273, 8498
 Willink, E. 5078
 Willis, C. C. 1198
 Willis, S. J. 1656
 Willits, D. H. 1443, 6095
 Willmitzer, L. 5118
 Wills, R. B. H. 2069, 2169, 8599, 9994
 Willson, B. W. 2506
 Willuhn, G. 5333
 Willumsen, J. 4227, 7727
 Willumsen, K. 628
 Wilksa-Jeszka, J. 8228
 Wilson, C. 8844
 Wilson, C. L. 1125, 3735
 Wilson, D. 1897, 9783
 Wilson, D. O. 1284
 Wilson, D. O., Jr. 6410
 Wilson, D. P. 3391
 Wilson, G. 5774
 Wilson, G. P. M. 5585
 Wilson, H. 3036
 Wilson, J. R. 6205
 Wilson, K. D. 5568
 Wilson, L. L. 3788
 Wilson, M. A. 317
 Wilson, M. I. 6027
 Wilson, M. J. 1316
 Wilson, W. A. 2187
 Wilson-Kalashita, G. 209
 Win, Y. H. 10138
 Winarno, M. 10308
 Windham, M. T. 10733
 Winer, A. M. 8842
 Winfield, T. 4770, 6569
 Winiarski, R. 4874
 Winkel, T. 273
 Winkelheide, R. 524
 Winsor, J. A. 2216
 Winter, A. J. 10973
 Winter, H. 10404
 Winter, K. 7678
 Wiren, M. 10052
 Wisal Mohammad 10252
 Wischniewski, U. 8850
 Wisessang, S. 778
 Wishart, D. L. 10960
 Wiskich, J. T. 4172
 Wiśniewska-Grzeszkiewicz, H. 5268, 5272, 8831, 8856

- Wisniewski, M. 6521
 Wisniewski, M. E. 3735
 Wissemeier, A. H. 5265
 Wissing, J. B. 2539
 Wit, C. T. de 10039
 Wit, J. de 10133-10134
 Witaszek, W. 5268, 8856
 Withey, R. 2592, 9322
 Withey, R. K. 2829
 Withner, C. L. 7392
 Wititsuwannakul, R. 1845, 6447, 8162
 Witkowski, E. T. F. 7102-7103
 Witkowski, R. 5316
 Witney, G. W. 792, 6302
 Witomska, M. 4309
 Witt, A. B. R. 7487
 Witt, H. J. 9645
 Witt, J. 6991
 Witt, J. B. 592
 Witte, M. 7488, 10126
 Witte, Y. de 4332, 5202
 Witter, S. G. 8115
 Wittich, K. P. 5600
 Włodarczyk, P. 1948, 7459
 Wociór, S. 1991
 Wodner, M. 2701, 4553
 Woelore, W. M. 7310
 Wohanka, W. 7419
 Wohlgenant, M. K. 1023
 Wojciechowska-Mazurek, M. 10069
 Wójcik, A. 4216
 Wójcik, P. 7478, 8284
 Wojdyła, A. 5272
 Wojdyła, A. T. 5165-5166, 5273-5274
 Wojtaszek, P. 426, 2239, 4161
 Wolf, I. 6422
 Wolf, S. 1439
 Wolf, T. K. 2090, 5762
 Wolfe, D. W. 2112, 5906
 Wolfenbarger, D. A. 1416
 Wolff, A. B. 2228
 Wolfram, B. 8328
 Wollenweber, E. 742, 5221, 8763
 Wollgiehn, R. 6029
 Wolpert, J. A. 3952, 6688, 9377
 Wolstenholme, B. N. 797, 3566, 3577, 3580, 4483-4484, 9870, 10958
 Woltering, E. J. 2312, 5255, 5577, 7502
 Wolters, C. 10741
 Wolverton, B. C. 7857
 Wolverton, J. D. 7857
 Won, J. H. 1328
 Wong, K. C. 3695, 5527, 10878
 Wong, K. M. 10044
 Wong, R. N. S. 10791
 Wong, S. C. 4541, 6178
 Wong, S. N. 10878
 Wong, T. M. 10791
 Wong, Y. S. 3142
 Woo, I. S. 3025, 10545
 Woo, K. C. 5347
 Woo, Y. H. 2158
 Woo InSik 3025, 10545
 Woo YoungHoe 2158
 Wood, B. W. 4847
 Wood, C. W. 2162
 Wood, D. A. 2344
 Wood, J. 10707
 Wood, P. N. 3867
 Woodburn, K. R. 7254
 Woodgyer, E. M. 2507
 Woodrow, I. E. 5840
 Woods, J. L. 10580
 Woodward, S. 6222
 Wooldridge, J. 204, 3743, 8363
 Woolf, A. B. 2584, 4486, 5878
 Woolfe, M. L. 2799
 Workneh, F. 6914
 World Horticultural Trade & US Export Opportunities 4934, 5361
 Worley, R. E. 1172, 10245
 Worlock, A. 8467
 Worrall, R. 2367-2368
 Woyke, H. 2330, 2519
 Wratten, S. D. 987, 9622
 Wray, V. 8897
 Wreğa, M. 9667
 Wright, B. S. 5814
 Wright, C. J. 242
 Wright, D. J. 7709
 Wright, E. 5963
 Wright, K. M. 7099
 Wright, M. G. 8787
 Wright, P. 6760
 Wright, R. D. 5280
 Wright, S. 2970
 Wright, S. E. 8297
 Wrischer, M. 3506
 Wróblewska, C. 5200
 Wrolstad, R. E. 9496, 9968
 Wrona, D. 2886
 Wrzesinski, C. L. 5870
 Wu, A. M. 10798
 Wu, B. H. 2766, 7359
 Wu, B. Q. 6458
 Wu, C. 11008
 Wu, C. B. 6861
 Wu, C. C. 2450, 6428
 Wu, C. L. 4414
 Wu, C. M. 4403
 Wu, C. Y. 560
 Wu, D. R. 2211
 Wu, D. S. 3941
 Wu, D. Y. 7235
 Wu, G. J. 8630
 Wu, G. R. 7168
 Wu, G. S. 5873
 Wu, G. X. 8302, 8374
 Wu, G. Y. 10239
 Wu, J. 8385
 Wu, J. D. 3317
 Wu, J. F. 4281
 Wu, J. G. 4014
 Wu, J. J. 8504
 Wu, J. L. 943
 Wu, J. S. 4025, 8730
 Wu, J. T. 6786
 Wu, J. Y. 9861
 Wu, K. Y. 4561
 Wu, L. 6665
 Wu, L. C. 8940
 Wu, L. Q. 10855
 Wu, M. J. 133
 Wu, M. X. 348, 1468, 4145, 6943
 Wu, M. Y. 6288
 Wu, Q. G. 1661, 2538
 Wu, Q. X. 1831
 Wu, S. F. 8973, 9283
 Wu, S. J. 2487
 Wu, S. P. 6274
 Wu, S. Q. 8575
 Wu, S. Y. 2185
 Wu, T. K. 6333
 Wu, T. Q. 2760
 Wu, W. C. 7197
 Wu, W. K. 1680
 Wu, W. L. 3005, 3585, 5703
 Wu, W. S. 8020
 Wu, X. 958-959, 2766
 Wu, X. M. 8451
 Wu, X. R. 6851, 10493
 Wu, Y. 2394
 Wu, Y. F. 3667
 Wu, Y. M. 1461, 1463
 Wu, Y. P. 9511
 Wu, Y. W. 1067
 Wu, Z. 2256
 Wu, Z. B. 1532
 Wu, Z. Y. 7557
 Wu, Z. Z. 4018
 Wu AiMin 10798
 Wu BingHua 2766, 7359
 Wu BoQian 6458
 Wu Cai 11008
 Wu ChangLu 4414
 Wu ChaoYuan 560
 Wu ChengBiao 6861
 Wu ChingChi 6428
 Wu ChuanMin 4403
 Wu DengRu 2211
 Wu DingYao 7235
 Wu DunShu 3941
 Wu GengXi 8302, 8374
 Wu GuangJun 8630
 Wu GuoRong 7168
 Wu GuoSheng 5873
 Wu JengTzung 6786
 Wu JiaDao 3317
 Wu JiaJiu 8504
 Wu JianFeng 4281
 Wu Jiang 8385
 Wu JiLin 943
 Wu JinGui 4014
 Wu JinSui 4025
 Wu JiYou 9861
 Wu JunShou 8730
 Wu KaiYun 4561
 Wu LiangCai 8940
 Wu Lin 6665
 Wu MeiYu 6288
 Wu MengXiang 4145
 Wu MingJiang 133
 Wu MinXian 348, 1468, 6943
 Wu QianXing 1831
 Wu QiGen 1661, 2538
 Wu ShaoJin 2487
 Wu ShunFa 9283
 Wu ShuPin 6274
 Wu ShuYun 2185
 Wu SuFen 8973
 Wu TieQiao 2760
 Wu TzeKann 6333
 Wu WangChun 7197
 Wu WenLong 5703
 Wu WenShan 8020
 Wu WhiKoa 1680
 Wu WoanLih 3585
 Wu XianRong 6851, 10493
 Wu Xun 958-959, 2766
 Wu YingPeng 9511
 Wu Yu 2394
 Wu ZhaoZhi 4018
 Wu ZiYue 7557
 Wu ZunBiao 1532
 Wunderer, W. 3040
 Wurr, D. C. E. 1339, 5008, 5861, 6791
 Wurtele, E. S. 6050
 Wurzberger, A. 8662
 Wustemberghs, H. 162, 5639, 5685, 6640, 8332, 10191
 Wutcher, H. K. 10844
 Wüthrich, B. 6349
 Wutscher, H. K. 5366, 5382, 8949, 9889
 Wyatt, R. T. 9484
 Wyk, A. E. van 9718
 Wyk, B. E. van 4453, 10680
 Wyland, L. J. 6779
 Wyllie, S. G. 5490
 Wyss, E. 10340
 Wyss, P. 5791
 Xhang, Y. G. 10848
 Xi, R. T. 2882
 Xi, Y. F. 6062, 6339, 6351
 Xi RongTing 2882
 Xi YuFang 6062, 6339, 6351
 Xia, C. R. 36
 Xia, C. S. 1080
 Xia, G. H. 3794
 Xia, N. 3793
 Xia, X. D. 2402
 Xia, Y. 6520
 Xia, Y. P. 4319
 Xia, Y. S. 962
 Xia ChunSen 1080
 Xia GuoHai 3794
 Xia Ning 3793
 Xia XiaDi 2402
 Xia Yang 6520
 Xia YiPing 4319
 Xian, X. 1751
 Xian Xu 1751
 Xiang, D. F. 189, 2883, 3986
 Xiang, X. H. 4403
 Xiang DianFang 189, 2883, 3986
 Xiang XianHeng 4403
 Xiao, F. C. 10855
 Xiao, R. X. 4010
 Xiao, S. M. 8032
 Xiao, S. Y. 8937
 Xiao, X. G. 3106
 Xiao, Y. 10848
 Xiao, Z. Y. 3774
 Xiao RiXin 4010
 Xiao ShuMei 8032
 Xiao ShunYuan 8937
 Xiao XingGuo 3106
 Xiao ZhenYu 3774
 Xie, C. J. 2758
 Xie, M. 1084, 4864
 Xie, M. Y. 6461
 Xie, S. P. 4473
 Xie, W. S. 4322
 Xie, Z. Y. 10825
 Xie ChangJu 2758
 Xie Ming 4864
 Xie MingYong 6461
 Xie ShaoPing 4473
 Xie WenShen 4322
 Xiloyannis, C. 9337
 Ximenes, M. I. N. 2118
 Xin, P. G. 70, 3795, 8276
 Xin PeiGang 70, 3795, 8276
 Xing, Q. M. 10112
 Xiong, T. 6461
 Xiong, X. H. 750
 Xiong, X. Y. 4286
 Xiong, Z. X. 1081
 Xiong Tao 6461
 Xiong XiaoHui 750
 Xiong XingYao 4286
 Xiong ZhiXun 1081
 Xirau-Vayreda, M. 1246
 Xiu, D. R. 2008
 Xiu, Y. Z. 3764
 Xiu DeRen 2008
 Xiu YougZhen 3764
 Xu, B. M. 672, 7914
 Xu, B. S. 7177
 Xu, D. Q. 7127
 Xu, F. 2015
 Xu, F. C. 5326
 Xu, G. J. 4450
 Xu, G. M. 1356, 6917
 Xu, H. 6690
 Xu, H. L. 539, 1323, 3530, 6232, 10491
 Xu, H. Q. 158, 1131
 Xu, H. Y. 3509, 8432
 Xu, J. 3821, 8574
 Xu, J. B. 9487
 Xu, J. H. 10297
 Xu, J. K. 1739, 4525
 Xu, J. L. 2633
 Xu, J. Z. 10137
 Xu, K. 1145, 1920, 3131, 3518
 Xu, K. Z. 7170
 Xu, L. 4615, 9708
 Xu, L. F. 5673
 Xu, M. J. 3301
 Xu, M. Y. 1759, 7337, 8989
 Xu, P. W. 5810
 Xu, R. 5213
 Xu, R. C. 1813
 Xu, R. J. 302, 2211, 2705
 Xu, R. M. 4141
 Xu, W. M. 1696
 Xu, X. 4143
 Xu, X. B. 4490
 Xu, X. D. 3616, 7238
 Xu, X. F. 269, 3066-3067
 Xu, X. M. 111, 4354
 Xu, Y. 4224, 9283
 Xu, Y. J. 4110
 Xu, Y. N. 5917, 6740, 9519
 Xu, Y. Q. 10558
 Xu, Y. W. 6456
 Xu, Y. X. 1411
 Xu, Z. 1350
 Xu, Z. C. 3483
 Xu, Z. H. 2304, 3317, 4218
 Xu BenMei 7914
 Xu BingShen 7177
 Xu DaQuan 7127
 Xu Fang 2015
 Xu FengCai 5326
 Xu GuiMin 1356, 6917
 Xu GuoJun 4450
 Xu HaiYing 8432
 Xu HanQing 158, 1131
 Xu HeLin 539
 Xu HongYan 3509
 Xu JiaBing 9487
 Xu Jian 3821

- Xu JianKai 1739, 4525
 Xu JiZhong 10137
 Xu KeZhang 7170
 Xu Kun 1920, 3131, 3518
 Xu Li 9708
 Xu Lin 4615
 Xu LingFei 5673
 Xu MeiJuan 3301
 Xu MiaoYan 1759, 7337
 Xu PeiWen 5810
 Xu Rong 5213
 Xu RongCan 1813
 Xu RuJuan 302, 2211, 2705
 Xu RuMei 4141
 Xu WeiMin 1696
 Xu XiangMing 4354
 Xu Xin 4143
 Xu XiuDan 3616, 7238
 Xu XueFeng 269, 3066-3067
 Xu Ying 4224
 Xu YiNong 5917, 6740, 9519
 Xu Yu 9283
 Xu YueJin 4110
 Xu YunWen 6456
 Xu YuQuan 10558
 Xu ZhiChang 3483
 Xu ZhiHao 4218
 Xu ZhiHong 3317
 Xuan, S. N. 4355
 Xuan SongNan 4355
 Xue, A. G. 3011
 Xue, B. D. 1353
 Xue, B. Y. 1429, 3801
 Xue, C. S. 649
 Xue, D. S. 8673, 9427
 Xue, J. B. 1430
 Xue, J. C. 6900
 Xue, M. N. 837
 Xue, Y. B. 3652, 8502
 Xue, Y. F. 9100
 Xue, Z. D. 6578
 Xue BaoDi 1353
 Xue BingYe 3801
 Xue DongSen 8673, 9427
 Xue JiCheng 6900
 Xue MiaoNan 837
 Xue YanBin 3652, 8502
 Xue YunFeng 9100
 Xue ZhiDe 6578
 Yaacob, O. 1875, 3637
 Yaakov, B. 3595
 Yabag, C. 7777
 Yabe, K. 2816, 8539-8541
 Yadav, A. K. 2526, 2535
 Yadav, B. R. 4960
 Yadav, F. D. 4197
 Yadav, G. R. 7850
 Yadav, H. D. 10745
 Yadav, K. R. 10381
 Yadav, K. S. 2724
 Yadav, L. B. 2605, 2714
 Yadav, L. N. 4435
 Yadav, N. R. 10427
 Yadav, S. S. 4960
 Yadav, V. K. 6214
 Yadava, A. K. 2526, 2535
 Yadava, H. S. 2671, 2715, 2724
 Yadava, R. B. R. 9055
 Yadava, U. L. 7404, 7528
 Yae, B. W. 3765, 6540, 7451
 Yae ByeongWoo 3765, 6540, 7451
 Yagi, A. 7081
 Yaguchi, N. 1241
 Yahara, S. 6939
 Yahata, D. 3604, 8345, 9276
 Yahia, E. M. 4704, 7192
 Yakir, D. 4511, 8120
 Yakovishin, A. A. 9439
 Yakovleva, E. Yu. 5145
 Yakura, K. 344
 Yakushiji, H. 5438, 8077
 Yakuwa, T. 3101, 3511
 Yalcin, S. R. 6763, 6773, 6818, 6925, 6927, 7148
 Yamada, H. 2316, 4842-4843, 5431
 Yamada, K. 1265, 4436, 10647-10648
 Yamada, M. 869, 2656, 5422
 Yamada, R. 4888, 8668
 Yamada, T. 10533
 Yamada, Y. 1681, 4532, 5367, 6336, 9872
 Yamagani, T. 7176
 Yamagata, H. 3300
 Yamagi, N. 9534, 10487
 Yamagishi, M. 646, 2404
 Yamaguchi, H. 5880
 Yamaguchi, I. 5884, 6099, 7917, 8685
 Yamaguchi, K. 176, 4144, 4147, 4629, 5348
 Yamaguchi, M. 4809, 5743
 Yamaguchi, M. A. 7693
 Yamaguchi, S. 7878
 Yamaguchi, T. 3118, 4601, 7305, 9956, 10613-10614
 Yamakawa, O. 241
 Yamaki, M. 7941
 Yamaki, S. 4696, 7539, 8429
 Yamamitsu, T. 5309
 Yamamoto, A. 5874
 Yamamoto, H. Y. 369-370, 5849
 Yamamoto, K. 7865, 8555
 Yamamoto, M. 514, 4614, 6336, 9872, 10861
 Yamamoto, P. T. 8140
 Yamamoto, R. 7714
 Yamamoto, T. 1650, 4778, 4791, 10145
 Yamamoto, Y. 4974, 8828, 9717
 Yamamura, H. 5436
 Yamamura, S. 1551
 Yamanaka, H. 5399
 Yamanaka, K. 3333
 Yamanaka, M. 4310, 5167
 Yamane, H. 869, 2656, 5033, 5884, 7496, 7917
 Yamane, K. 636, 10643
 Yamanishi, H. 3107
 Yamanishi, O. K. 2593
 Yamanishi, T. 7364, 7366-7369
 Yamasaki, A. 7590
 Yamasaki, N. 10820
 Yamasaki, Y. 6976
 Yamashita, F. 3260, 3305, 8667
 Yamashita, G. 4888
 Yamashita, H. 3549, 6781, 9868
 Yamashita, M. 9092, 10666
 Yamashita, N. 4533
 Yamashita, R. 3433
 Yamashita, T. 8827
 Yamauchi, K. 7363
 Yamauchi, S. 10867
 Yamauchi, T. 3388, 7917
 Yamauchi, Y. 7496, 8563
 Yamaura, M. 763
 Yamazaki, H. 3103, 6793, 7719, 7764, 8671, 9416
 Yambe, Y. 2484
 Yamdagni, R. 8795
 Yan, A. C. 10633
 Yan, J. Q. 7014, 10558
 Yan, J. Y. 7875
 Yan, L. F. 6960
 Yan, Q. L. 9144
 Yan, X. C. 1847
 Yan, X. Y. 4502
 Yan, Y. Q. 4324
 Yan, Y. Z. 6606
 Yan JingYi 7875
 Yan JiQiong 7014, 10558
 Yan LongFei 6960
 Yan QinLao 9144
 Yan XianYue 4502
 Yan XueCheng 1847
 Yan YiZhing 6606
 Yan YongQing 4324
 Yanagi, T. 537
 Yanagihara, H. 6285
 Yanagisawa, T. 7160
 Yanagisawa, Y. 4614
 Yancheva, S. D. 2029
 Yáñez-Flores, I. 8215
 Yang, A. F. 1343
 Yang, B. M. 8978
 Yang, C. 1340
 Yang, C. K. 9053
 Yang, C. M. 840, 2500, 5560, 7970, 10689
 Yang, C. Y. 3719, 3773
 Yang, D. Q. 6595
 Yang, E. B. 2672
 Yang, E. Q. 6559
 Yang, F. M. 3234
 Yang, G. L. 9873
 Yang, H. 652, 7875
 Yang, H. D. 2554
 Yang, H. Q. 123, 1100, 2908
 Yang, H. Y. 4818
 Yang, J. 1145, 2548-2549, 2755
 Yang, J. B. 3317
 Yang, J. H. 837, 6559
 Yang, J. L. 6735
 Yang, J. M. 3764
 Yang, J. P. 6627
 Yang, J. R. 1184, 7735, 10467
 Yang, J. S. 8504, 10545
 Yang, L. 514
 Yang, L. C. 6460
 Yang, L. M. 1297
 Yang, M. R. 5748
 Yang, P. 2633
 Yang, P. F. 6573, 6630
 Yang, Q. 10169
 Yang, Q. S. 5631, 9305
 Yang, R. 9487
 Yang, R. F. 1696
 Yang, R. L. 5671, 7761
 Yang, S. F. 1461, 1463, 4698, 7841
 Yang, S. G. 10426
 Yang, S. H. 3810, 10478
 Yang, S. J. 1280, 6757, 6831, 7051, 10016
 Yang, S. S. 8550
 Yang, S. W. 2868
 Yang, S. Z. 3234
 Yang, T. 6870
 Yang, W. B. 4136
 Yang, W. D. 6832
 Yang, W. H. 9903
 Yang, W. Q. 7573, 7575
 Yang, W. S. 2753
 Yang, W. Y. 2927
 Yang, X. 1324, 1342, 5863, 6790, 7708
 Yang, X. H. 6851, 10493
 Yang, X. J. 8562
 Yang, X. L. 8279, 10367
 Yang, X. S. 2383, 4136
 Yang, Y. 1532, 4559, 8730
 Yang, Y. H. 3684
 Yang, Y. J. 139, 1119, 3684, 5810
 Yang, Y. L. 2658
 Yang, Y. Q. 335
 Yang, Y. S. 3989
 Yang, Y. Y. 5975, 6099
 Yang, Z. B. 5981
 Yang, Z. H. 4326
 Yang, Z. J. 3895, 3897
 Yang, Z. M. 652, 7875
 Yang, Z. R. 2760, 9813
 Yang BiMei 8978
 Yang ChiMing 840, 2500, 7970, 10689
 Yang ChunYan 3719, 3773
 Yang ChwenMing 5560
 Yang CongKin 9053
 Yang DaoQin 6595
 Yang EnQin 6559
 Yang ErBin 2672
 Yang FengMei 3234
 Yang GenLiang 9873
 Yang HanDong 2554
 Yang Hong 652, 7875
 Yang HongQiang 123, 1100, 2908
 Yang HuaiYi 4818
 Yang Jian 2548-2549, 2755
 Yang JianBo 3317
 Yang JianPing 6627
 Yang JiHua 837
 Yang JingHui 6559
 Yang JinLou 6735
 Yang JinSu 10545
 Yang JuiSen 8504
 Yang JunMei 3764
 Yang JuRong 7735, 10467
 Yang LiangCai 6460
 Yang MeiRong 5748
 Yang PeiFang 6573, 6630
 Yang QingSheng 5631, 9305
 Yang Rui 9487
 Yang RuiFang 1696
 Yang SeungGu 10426
 Yang ShangFa 7841
 Yang ShangShyng 8550
 Yang ShiJe 1280
 Yang ShiJe 6757, 6831, 7051
 Yang ShiZhou 3234
 Yang ShuHua 10478
 Yang ShuJuan 10016
 Yang Tao 6870
 Yang WeiQiang 7573, 7575
 Yang WeiShi 2753
 Yang WenBo 4136
 Yang WenDing 6832
 Yang WenYue 2927
 Yang WinHuan 9903
 Yang XengLiang 10367
 Yang Xian 1342
 Yang XianJin 8562
 Yang XianShuang 4136
 Yang XiaoHe 6851, 10493
 Yang XiaoLi 8279
 Yang Yan 8730
 Yang YauShiang 3989
 Yang Yi 1532
 Yang YingLong 2658
 Yang Yong 4559
 Yang YongJoon 139, 1119
 Yang YoungYell 5975, 6099
 Yang YuanJun 5810
 Yang ZhenJun 3895, 3897
 Yang ZhenBiao 5981
 Yang ZhiMin 652, 7875
 Yang ZhiRong 2760
 Yang ZhongHan 4326
 Yang ZongRen 9813
 Yankov, B. 6265
 Yanmaz, R. 7749
 Yano, K. 2149, 6767
 Yano, T. 4093
 Yantarasi, T. 5496
 Yao, C. L. 6583
 Yao, D. Y. 4429
 Yao, E. Y. 10478
 Yao, G. 517
 Yao, G. K. 959
 Yao, H. F. 6784, 10432
 Yao, H. S. 8393
 Yao, K. 2237
 Yao, M. H. 8493
 Yao, N. R. 1837
 Yao, Q. Z. 10791
 Yao, X. M. 9849
 Yao, Y. C. 2907
 Yao, Y. M. 7592
 Yao, Y. T. 546, 2223
 Yao ChengLin 6583
 Yao DunYi 4429
 Yao EnYun 10478
 Yao GuoKun 959
 Yao HeFen 6784, 10432
 Yao HongSen 8393
 Yao MingHui 8493
 Yao XinMei 9849
 Yao YingMou 7592
 Yao YunCong 2907
 Yap, M. Y. 9462
 Yap MeeYong 9462
 Yarborough, D. E. 233
 Yarchakovskaya, S. 5700
 Yardim, E. N. 8494
 Yaronskaya, E. B. 5905, 6835
 Yaroslavtseva, N. I. 4736
 Yarotskaya, L. V. 9176
 Yarov, B. E. 5597
 Yaseen, M. 1676, 9835
 Yasnosh, V. A. 6023
 Yasokawa, D. 8525
 Yassunaka, F. S. 8272
 Yastreb, G. V. 7442
 Yasuda, T. 4601, 7305, 9956
 Yasuhara, M. 2106
 Yasuhisa, K. 4088
 Yasui, K. 6122
 Yasui, T. 7652

- Yasuta, E. 6135
 Yates, E. A. 6049
 Yates, I. E. 10246
 Yates, M. 6303
 Yato, M. 982
 Yau, A. 1982
 Yavorskaya, V. K. 10130
 Yazaki, Y. 3541
 Yazawa, S. 4383
 Ydergaard, S. 6084
 Ye, C. L. 3152
 Ye, C. X. 711
 Ye, H. L. 1575
 Ye, J. S. 6288
 Ye, J. Y. 6765
 Ye, K. N. 930
 Ye, Q. S. 6171
 Ye, T. H. 1739
 Ye, W. C. 4863
 Ye, W. M. 4502
 Ye, X. L. 698-699, 8838
 Ye, X. M. 4283
 Ye, X. Q. 7259
 Ye, X. Z. 4354
 Ye, Y. 959
 Ye, Z. B. 1440
 Ye ChenLiang 3152
 Ye ChuangXing 711
 Ye HaiLong 1575
 Ye JinSheng 6288
 Ye JiYu 6765
 Ye KeNan 930
 Ye QingSheng 6171
 Ye TaiHe 1739
 Ye WanCheng 4863
 Ye WenMin 4502
 Ye XingQian 7259
 Ye XinMin 4283
 Ye XiuLin 699
 Ye XiuZhen 4354
 Ye Yong 959
 Yeager, J. 5687
 Yeager, J. T. 2006, 5664, 8235, 9253
 Yeager, T. H. 6190
 Yeager, H. Y. 9082
 Yearsley, C. W. 8312
 Yeates, J. S. 2423
 Yeboah, D. K. 1784
 Yee, B. C. 5117
 Yehia, M. M. 9199
 Yein, B. R. 10536
 Yekutieli, O. 8125
 Yelenosky, G. 4515, 5366
 Yelle, S. 529, 4251, 8686
 Yemteev, V. T. 322
 Yen, M. H. 1680
 Yen MingHong 1680
 Yenesew, A. 5155
 Yeo, P. F. 3699
 Yeoman, M. M. 5681, 7545
 Yeong, N. H. 5832
 Yeong, Y. R. 6410
 Yeoung, Y. R. 1284, 1369, 1371, 5483, 10094, 10462, 10480, 10936
 Yeoung YoungRog 1284, 1369, 1371, 5483, 10094, 10462, 10480, 10936
 Yerriswamy, R. M. 8121
 Yeung, E. C. 698, 8838, 9528
 Yeung, H. W. 10791
 Yi, C. K. 6069
 Yi, F. 10840
 Yi, S. G. 4531
 Yi, X. M. 10837, 10856
 Yi, Y. B. 10645
 Yi, Z. H. 10841
 Yi ChangKeun 6069
 Yi ShengGuo 4531
 Yi YoungByung 10645
 Yie, J. Z. 10831
 Yie, S. L. 1712, 10831
 Yie, S. X. 10831
 Yiem, M. S. 2891
 Yiem MyungSoon 2891
 Yigit, A. 2595
 Yik, C. P. 2498
 Yildirim, T. B. 9643, 9646, 9650-9651
 Yilmaz, G. 756
 Yim, J. H. 1579
 Yim JaeHong 1579
 Yin, G. C. 1974
 Yin, H. F. 7365
 Yin, J. P. T. 4591
 Yin, J. S. 1430
 Yin, K. L. 1247
 Yin, L. K. 7155
 Yin, L. Q. 10612
 Yin, M. H. 7970
 Yin, R. Y. 1502
 Yin, T. 4153, 10270
 Yin, T. J. 5740, 6351
 Yin, W. Y. 4311
 Yin, Y. 3163
 Yin, Y. J. 4296
 Yin, Y. Q. 831
 Yin, Z. H. 9673
 Yin GuangChun 1974
 Yin HongFan 7365
 Yin KeLin 1247
 Yin LinKe 7155
 Yin LiQing 10612
 Yin MingHorng 7970
 Yin RongYi 1502
 Yin Tiejin 6351
 Yin Tiejing 5740
 Yin WeiYi 4311
 Yin Yan 3163
 Yin YanJun 4296
 Yin ZuHua 9673
 Ying, J. F. 6339
 Ying, Z. X. 8977
 Ying JinFa 6339
 Ying ZhiXiu 8977
 Yiridoe, E. K. 8492
 Ylärinta, T. 362
 Yoda, K. 1544
 Yogaratnam, N. 2748, 6441, 10997
 Yogendra Kumar 7929
 Yoichi, T. 2727
 Yokoi, M. 1544, 1597, 4381, 6101, 6115, 10638
 Yokomizo, H. 2051, 3008
 Yokoo, Y. 7865
 Yokota, A. 8594
 Yokota, E. 6276
 Yokota, H. 374-375, 2165, 4997
 Yokota, K. 7490
 Yokota, T. 5884, 6135, 6277, 7160, 8335, 8612
 Yokotsuka, K. 6684
 Yokoyama, K. 2279
 Yokoyama, T. 5294
 Yoldaş, Z. 2307, 6826
 Yomemori, K. 6364
 Yonce, C. E. 288
 Yoneda, K. 9489, 9761, 10022
 Yonekura, M. 10820
 Yonemori, K. 2657, 9916, 10897
 Yoneshigue-Valentin, Y. 3555
 Yoneyama, S. 10027-10028
 Yoneyama, T. 3110, 8518
 Yonezawa, H. 414, 6289
 Yong, J. W. H. 703, 2445, 5254, 6178
 Yong, T. A. 9423
 Yoo, B. C. 10400
 Yoo, B. S. 1630
 Yoo, D. L. 3425
 Yoo, E. H. 10736
 Yoo, I. O. 10459
 Yoo, J. K. 2831, 3100
 Yoo, K. C. 1371, 10462, 10480
 Yoo, K. S. 4047
 Yoo, Y. K. 10736
 Yoo BongSik 1630
 Yoo ByungChun 10400
 Yoo DongLim 3425
 Yoo EunHa 10736
 Yoo IlOong 10459
 Yoo JaiKi 2831, 3100
 Yoo KeunChang 1371, 10462, 10480
 Yoo KilSun 4047
 Yoo YongKweon 10736
 Yoon, H. M. 3672
 Yoon, J. T. 330, 2175, 2302, 3165, 3419, 10218, 10232, 10725-10726
 Yoon, K. E. 695, 5016
 Yoon, K. H. 6069
 Yoon, M. S. 10896
 Yoon, W. M. 7715
 Yoon HwaMo 3672
 Yoon JaeTak 330, 2175, 2302, 3165, 3419, 10218, 10232, 10725-10726
 Yoon KabHee 6069
 Yoon KyungEun 5016
 Yoon MyeongSoo 10896
 Yoon WahMo 7715
 Yorgey, B. 1374
 York, G. M. 5421
 Yosef, S. 7797
 Yoshida, A. 4650, 5434
 Yoshida, E. 10382
 Yoshida, I. 5773, 10500
 Yoshida, K. 8600
 Yoshida, M. 4819, 7590
 Yoshida, S. 1681, 11001
 Yoshida, T. 2279, 5516, 6119, 9534, 9825, 10487
 Yoshida, Y. 251, 1930, 3269, 4892, 5739, 7825-7826, 9612, 9614
 Yoshihara, T. 1465, 5121
 Yoshihira, K. 8002
 Yoshikawa, H. 10510
 Yoshikawa, S. 5513-5514
 Yoshiki, Y. 455
 Yoshikura, J. I. 4013
 Yoshimoto, H. 2354, 4013
 Yoshimura, M. 10335
 Yoshinaga, K. 5367
 Yoshioka, H. 4806, 8547
 Yoshioka, K. 9275
 Yoshioka, M. 3560
 Yoshioka, T. 7863
 Yoshizawa, K. 6100, 6234
 Youn, S. J. 247
 Youn SunJoo 247
 Younce, F. L. 6603
 Young, A. J. 1703, 6280
 Young, D. C. 2391
 Young, D. H. 3095
 Young, E. 1079, 4744, 4768, 4805, 5603
 Young, E. F., Jr. 8376
 Young, H. 9224
 Young, J. R. 1415
 Young, R. E. 9743
 Youngs, J. A. 3397
 Younis, S. 5939
 Yousfi, M. 8099
 Yousif, B. H. 9867
 Youssef, J. 9178
 Youssef, S. M. 5892
 Youssefian, S. M. 5817
 Yow, S. T. K. 2685
 Yoza, K. I. 8124
 Ystaas, J. 93, 3818, 4812, 4856
 Yu, B. G. 7240
 Yu, C. H. 3582, 8939
 Yu, C. J. 2218, 2405-2406, 3074, 3672
 Yu, C. T. 2770
 Yu, D. Q. 6992
 Yu, F. S. 1067
 Yu, G. H. 4286
 Yu, H. 3308
 Yu, H. B. 4323
 Yu, H. L. 4251
 Yu, H. M. 10265
 Yu, H. S. 10789
 Yu, H. Y. 6727
 Yu, I. C. 2559
 Yu, J. Q. 1502
 Yu, J. X. 1719
 Yu, J. Z. 6841
 Yu, K. J. 1548, 6107, 8040-8041
 Yu, L. 1188, 2041, 3027, 6839, 10274
 Yu, P. 133
 Yu, S. B. 10121
 Yu, S. C. 9171
 Yu, S. M. 1063
 Yu, S. Q. 7234
 Yu, S. W. 9636
 Yu, W. D. 1725
 Yu, X. B. 10112
 Yu, X. C. 401, 3518, 6828
 Yu, X. L. 6650
 Yu, X. R. 1228
 Yu, Y. J. 9487
 Yu, Y. M. 10732
 Yu, Z. 3253
 Yu, Z. G. 1084
 Yu, Z. Y. 3014, 10866
 Yu BingGao 7240
 Yu ChangHe 3582, 8939
 Yu ChangJae 2218, 2405-2406, 3074, 3672
 Yu CongTian 2770
 Yu DiQiu 6992
 Yu GeHui 4286
 Yu HaiBin 4323
 Yu HaiYe 6727
 Yu HanLing 4251
 Yu HongSeob 10789
 Yu InCheol 2559
 Yu JiangQiang 1502
 Yu JinXing 1719
 Yu JiZhu 6841
 Yu KwangJin 1548, 6107
 Yu Liang 1188, 2041, 6839, 10274
 Yu Ping 133
 Yu SeongWoon 9636
 Yu ShengQuan 7234
 Yu ShiMei 1063
 Yu ShuChun 9171
 Yu XianChang 401, 3518, 6828
 Yu XiaoLing 6650
 Yu YangJun 9487
 Yu YungMi 10732
 Yu ZeYuan 3014
 Yu Zhen 3253
 Yuan, F. G. 1184
 Yuan, H. 3821, 10866
 Yuan, J. 1827
 Yuan, K. J. 1117, 2915
 Yuan, M. 6806, 7759
 Yuan, P. Y. 1751
 Yuan, X. L. 10137
 Yuan, Y. B. 1112, 3802, 8314
 Yuan, Z. H. 5652
 Yuan, Z. X. 10417
 Yuan Hu 3821
 Yuan Jun 1827
 Yuan KeJun 1117, 2915
 Yuan Ming 6806
 Yuan PeiYuan 1751
 Yuan XiaoLuan 10137
 Yuan YongBing 1112, 3802, 8314
 Yuan ZhongHeng 5652
 Yücel, S. 5077, 8572
 Yudina, V. F. 9350
 Yuen, C. M. C. 1743, 1978-1979, 4701, 8318
 Yuen, G. Y. 8797, 10664
 Yukawa, C. 10186, 10242
 Yukinaga, H. 9915
 Yüksel, M. 7148
 Yüksel, Ş. 771
 Yule, L. J. 5088
 Yuliadi, E. 3511
 Yulian 4998
 Yun, C. J. 3890-3891, 10241
 Yun, H. J. 1217
 Yun, H. S. 8079-8080
 Yun, S. D. 10354
 Yun, T. 3380, 10704
 Yun CheonJong 3890-3891, 10241
 Yun SangDon 10354
 Yun Tae 3380, 10704
 Yunianta 4002
 Yunianta, Y. R. 3557
 Yunovitz, H. 3306, 7822
 Yürekli, A. K. 762
 Yusof, B. 9986
 Yusof, F. 9082
 Yusupova, B. 5307
 Yuuki, S. 117
 Zabetakis, I. 9371

- Zacarias, L. 7222, 7226, 8963, 8969
 Zacarias, L. 4529
 Zade, V. N. 2382
 Zadernowski, R. 1688, 5701
 Zadoks, J. C. 3208
 Zadravec, P. 9178, 10104-10105
 Zaffina, F. 3623
 Zager, B. 9650
 Zago, S. 8442
 Zagorska, N. 4815
 Zagulskij, M. 1612
 Zaharah, A. 5809, 5821
 Zaharah, A. R. 925
 Zahariah Hasan 1774
 Zahariah Hassan 5522
 Zahir Mohammad 10772
 Zahn, F. G. 9161
 Zaid, A. 2629, 5412
 Zaidman, Z. 10530
 Zaiger Genetics 3835-3836
 Zaiko, A. S. 7705
 Zainab, R. S. 5809, 5821
 Zainab Ali 496
 Zainol, I. 939
 Zajicek, J. M. 6198
 Zak, E. A. 5960
 Zaki, F. N. 7770
 Zaki, M. J. 2306, 7766
 Zakra, N. 5471, 9950
 Zaky, W. H. 5313
 Zalewski, S. 8709
 Zalom, F. 9395
 Zalom, F. G. 250, 3754, 9167
 Zaltzman, A. 1744
 Zaman, K. 2595
 Zaman, M. 4962
 Zamarripa Colmenero, A. 2691
 Zambon, F. R. A. 4885
 Zamborlini, M. 107
 Zambrano, J. 7339, 10393
 Zamet, D. 2580, 5358
 Zamir, D. 1450
 Zamorano, J. P. 3342, 9924
 Zamski, E. 8184
 Zamudio, N. 5072
 Zamudio, S. 5189
 Zan, F. del 4182
 Zana, J. 10187
 Zanthly, G. 10329-10330
 Zancada, C. 6012, 7799
 Zanche, C. de 8478
 Zande, J. C. van de 3079
 Zaneli, U. 7837
 Zanetti, G. 6768
 Zanetti, R. 3959
 Zang, Q. Q. 10112
 Zanin, A. C. W. 2220
 Zanini, E. 3373
 Zanon, S. 3048
 Zanzotto, A. 4922
 Zao, Y. W. 8814
 Zao YouWei 8814
 Zapata, F. 4994, 5135
 Zapata, J. M. 3993
 Zappi, D. 7919
 Zappi, D. C. 998
 Zăprătan, M. 9689
 Zarad, S. S. 6291, 6293, 6301, 6399
 Zaragoza, C. 5995, 7467, 7773
 Zaragoza, S. 5384
 Záray, Gy. 5894
 Zarcinas, B. A. 8349
 Zarębski, Z. W. 5891
 Zaritzky, N. 3949
 Zarkadas, C. G. 3732
 Zarrouk, M. 7241, 10887
 Zashchita Rastenii 3147, 3791
 Zatylny, A. M. 8407
 Zauberman, G. 3579
 Zaueta, F. S. 3594
 Zauralov, O. A. 4146, 8208
 Zavagli, F. 1207
 Zavaleta-Mancera, H. A. 4643
 Zavaleta-Mejía, E. 5999
 Zavorueva, E. N. 7738
 Zaw, K. 4472
 Zawadzka, B. 201
 Zawadzka, T. 10069
 Zayed, A. M. 9429
 Zbiec, I. I. 9492
 Zbinden, W. 1173, 3814, 5638, 9317
 Zdravković, J. 7842
 Zdyb, J. 4823
 Zeawail, E. F. 6218
 Zeawail, M. F. 9274
 Zebrowska, J. 4893
 Zeddies, J. 5767
 Zee, J. A. 4253
 Zee, S. Y. 698, 8838
 Zehnder, G. W. 6020
 Zehr, E. I. 995
 Zehrouni, A. 4690
 Zeidan, M. 1450
 Zeier, P. 8787
 Zeiger, E. 433-434
 Żelazo, N. 2864
 Zelená, E. 1311
 Zelenskii, M. I. 7407
 Zelený, F. 1311
 Zelger, R. 1961, 6566
 Zelinski, L. 2298
 Zeltzer, S. 9687
 Zemedé, A. 8197
 Zemlarič, Z. 9363
 Zemser, M. 871, 6155
 Zemtsov, A. Yu. 5282
 Zena, A. 3940
 Zencirkiran, M. 7973
 Zeng, F. A. 6188
 Zeng, R. 1102
 Zeng, R. S. 8044
 Zeng, W. P. 1552
 Zeng, X. N. 2601
 Zeng, Y. R. 8691, 10974
 Zeng FanAn 6188
 Zeng Rang 1102
 Zeng RenSen 8044
 Zeng WeiPing 1552
 Zeng XinNian 2601
 Zeng YanRu 8691, 10974
 Zenteno, E. 1609
 Zenteno, R. 1609
 Zerbini, P. E. 9312
 Zerman, N. 9136
 Zervakis, G. 3367
 Zeslinda, A. 894
 Zeitler, L. W. 705
 Zeweldu, T. 7271
 Zha, D. L. 3860
 Zha, J. J. 348, 1468, 6943
 Zha DuoLu 3860
 Zha JingJuan 348, 1468, 6943
 Zhai, C. G. 8900
 Zhai, L. 1285
 Zhai, Y. F. 363
 Zhai, Z. H. 1340
 Zhai ChangGeng 8900
 Zhai YingFen 363
 Zhan, G. Q. 1995
 Zhan, Q. C. 2552
 Zhan, S. M. 8314
 Zhan GuangQin 1995
 Zhan QingCai 2552
 Zhan ShuMin 8314
 Zhang, B. L. 4001-4002
 Zhang, B. Q. 3608
 Zhang, B. Z. 167
 Zhang, C. 6636
 Zhang, C. D. 2231
 Zhang, C. J. 2120
 Zhang, C. L. 3677, 7790
 Zhang, C. Q. 10859
 Zhang, C. T. 8385
 Zhang, C. X. 10837, 10856
 Zhang, D. 9677
 Zhang, D. H. 1117
 Zhang, D. L. 9953
 Zhang, D. M. 77, 2883, 4354
 Zhang, D. P. 269, 1914, 3039, 3062, 10344
 Zhang, D. S. 8340
 Zhang, D. W. 4218, 4226
 Zhang, D. Y. 4507
 Zhang, F. 517, 1737
 Zhang, F. L. 4088, 9487
 Zhang, F. M. 4135
 Zhang, F. X. 10843
 Zhang, F. Y. 6986
 Zhang, G. L. 4273
 Zhang, G. R. 4824
 Zhang, G. S. 1951, 2868
 Zhang, G. X. 10467, 10843
 Zhang, G. Y. 155
 Zhang, G. Z. 8891
 Zhang, H. G. 2758, 9959
 Zhang, H. L. 613
 Zhang, H. M. 10866
 Zhang, H. Q. 8954
 Zhang, H. S. 10840
 Zhang, H. Y. 1517, 3431, 3896, 6633
 Zhang, J. G. 77
 Zhang, J. H. 462
 Zhang, J. J. 10612
 Zhang, J. L. 2924
 Zhang, J. S. 10315
 Zhang, J. T. 3893
 Zhang, J. Y. 9318
 Zhang, K. J. 2548-2550, 2556
 Zhang, L. 4130, 4136, 10794
 Zhang, L. B. 1155
 Zhang, L. C. 832, 1737
 Zhang, L. J. 562
 Zhang, L. R. 5873
 Zhang, L. S. 8369
 Zhang, L. T. 4866
 Zhang, L. X. 10843
 Zhang, M. 1347, 4825
 Zhang, M. C. 4584
 Zhang, M. F. 3303
 Zhang, M. I. N. 5617
 Zhang, M. R. 8630
 Zhang, N. G. 5254
 Zhang, N. N. 9873
 Zhang, P. Y. 3986
 Zhang, Q. 8960
 Zhang, Q. G. 2114, 8711
 Zhang, Q. H. 10734
 Zhang, Q. P. 343, 2185, 4050
 Zhang, Q. Q. 8020
 Zhang, Q. S. 4172, 5836
 Zhang, Q. X. 2927
 Zhang, Q. Y. 10268
 Zhang, R. 10315
 Zhang, S. 343, 1574-1575, 4050
 Zhang, S. H. 4795
 Zhang, S. L. 843, 2624, 5669, 8279, 8630
 Zhang, S. Q. 3205
 Zhang, S. T. 2066
 Zhang, S. Z. 4218
 Zhang, T. 2550, 6595
 Zhang, T. R. 5643
 Zhang, W. 2553-2554
 Zhang, W. C. 8730, 8937, 10266, 10838
 Zhang, W. H. 8589
 Zhang, W. J. 10692
 Zhang, W. T. 2553-2554
 Zhang, W. Y. 4615, 6619
 Zhang, X. D. 4825
 Zhang, X. F. 4323-4324, 4327
 Zhang, X. G. 4323
 Zhang, X. H. 6421
 Zhang, X. J. 1230
 Zhang, X. L. 3247
 Zhang, X. M. 8973
 Zhang, X. P. 635, 11014
 Zhang, X. R. 8562
 Zhang, X. Y. 2066, 4020, 4224, 7051, 9926
 Zhang, X. Z. 77
 Zhang, Y. 6792, 7240
 Zhang, Y. D. 7790
 Zhang, Y. F. 6986
 Zhang, Y. H. 1084
 Zhang, Y. J. 3808, 5695, 8394
 Zhang, Y. S. 1927
 Zhang, Y. X. 2882, 10238
 Zhang, Y. Y. 5139, 5642
 Zhang, Y. Z. 5748
 Zhang, Z. 1689, 6665
 Zhang, Z. B. 1411
 Zhang, Z. D. 4120
 Zhang, Z. F. 8339, 8393, 10402
 Zhang, Z. H. 133, 2758, 2987, 3764, 4866, 10269
 Zhang, Z. J. 471, 9132
 Zhang, Z. L. 8977
 Zhang, Z. Q. 727, 1826
 Zhang, Z. S. 4374
 Zhang, Z. W. 1751, 3070, 4557
 Zhang, Z. X. 3518, 4113, 6606
 Zhang, Z. Y. 9895
 Zhang BaoZhi 167
 Zhang ChengDong 2231
 Zhang ChengLin 3677
 Zhang ChunLan 7790
 Zhang ChunTao 8385
 Zhang CunJin 2120
 Zhang DaoHui 1117
 Zhang DaPeng 269, 1914, 3039, 3062, 10344
 Zhang DeMing 77, 2883, 4354
 Zhang DeWei 4218, 4226
 Zhang DeYuan 4507
 Zhang Fang 1737
 Zhang FengLan 4088, 9487
 Zhang FuMan 4135
 Zhang FuYuan 6986
 Zhang GuiLian 4273
 Zhang GuiYan 155
 Zhang GuoSheng 1951
 Zhang GuoXiang 10467
 Zhang GuoZhen 8891
 Zhang HanGu 2758
 Zhang HeQin 8954
 Zhang HeYing 3431
 Zhang HongLiang 613
 Zhang HongYi 1517
 Zhang HuaYun 3896, 6633
 Zhang JianGe 77
 Zhang JianHui 462
 Zhang JianLu 10612
 Zhang JianLu 2924
 Zhang JiaYan 9318
 Zhang JingTing 3893
 Zhang KangJian 2548-2550, 2556
 Zhang Lei 10794
 Zhang Li 4130, 4136
 Zhang LiangCheng 832, 1737
 Zhang LiBin 1155
 Zhang LiJun 562
 Zhang LiRong 5873
 Zhang LiShuan 8369
 Zhang LiTian 4866
 Zhang MeiChu 4584
 Zhang MeiRong 8630
 Zhang Ming 4825
 Zhang MingFang 3303
 Zhang NingNing 9873
 Zhang PeiYu 3986
 Zhang QiGang 2114, 8711
 Zhang QingHua 10734
 Zhang QingQui 8020
 Zhang QiPei 343, 2185, 4050
 Zhang QiSen 4172, 5836
 Zhang QiXiang 2927
 Zhang QongYing 10268
 Zhang ShangLong 843, 2624, 5669
 Zhang Shao'ai 1574-1575
 Zhang ShaoLing 8279
 Zhang ShiZu 4218
 Zhang ShuHui 4795
 Zhang ShuLian 8630
 Zhang Song 343, 4050
 Zhang Tan 2550
 Zhang Tao 6595
 Zhang Wei 2553-2554
 Zhang WeiCheng 8730
 Zhang WeiJing 10692
 Zhang WeiTao 2553-2554
 Zhang WeiYi 4615
 Zhang WeiYuan 6619
 Zhang WenCai 8937
 Zhang WenHao 8589
 Zhang XianDi 4825
 Zhang XianGuo 4323
 Zhang XiaoFang 4323-4324, 4327
 Zhang XiaoLu 3247
 Zhang XiaoPing 635
 Zhang XiaoPo 11014
 Zhang XiaoYing 7051
 Zhang XiaoYuan 4224
 Zhang XiHao 6421
 Zhang XiMing 8973
 Zhang XinZhong 77
 Zhang XueRen 8562

- Zhang XueYu 4020, 9926
 Zhang YanShu 1927
 Zhang YaoDong 7790
 Zhang YeYan 5139
 Zhang Yi 6792
 Zhang YingZhu 5748
 Zhang Yong 7240
 Zhang YuanJi 8394
 Zhang YueJian 5695
 Zhang YueJiang 3808
 Zhang YuFeng 6986
 Zhang YuXing 2882
 Zhang YuYing 5642
 Zhang ZhanWei 1751
 Zhang ZhengFu 10402
 Zhang ZhengHe 2758
 Zhang ZhengHua 3764
 Zhang ZhengQing 1826
 Zhang ZhenXian 3518, 4113
 Zhang Zhian 1689, 6665
 Zhang ZhiFeng 8339, 8393
 Zhang ZhiHua 2987
 Zhang ZhiLin 8977
 Zhang ZhiSheng 4374
 Zhang ZhiWei 3070
 Zhang ZhiXiang 6606
 Zhang ZhongHai 10269
 Zhang ZhongHeng 133
 Zhang ZhongHui 4866
 Zhang ZhongJin 9132
 Zhang ZhongWu 4557
 Zhang ZiDe 4120
 Zhao, A. F. 2874
 Zhao, A. X. 4864
 Zhao, C. 1951
 Zhao, C. M. 5703
 Zhao, D. W. 3518
 Zhao, F. 10110
 Zhao, G. Y. 4130
 Zhao, H. J. 3131
 Zhao, H. P. 4627
 Zhao, H. W. 10367
 Zhao, J. C. 1184
 Zhao, J. M. 10110
 Zhao, J. W. 167
 Zhao, M. 9064
 Zhao, S. H. 2601
 Zhao, S. J. 1413, 5608
 Zhao, S. L. 1184
 Zhao, S. W. 6189
 Zhao, X. 738, 3684
 Zhao, X. Y. 7019
 Zhao, Y. 2151, 3136, 3896, 4331
 Zhao, Y. H. 8543
 Zhao, Y. J. 302, 413, 2211, 2705, 9181
 Zhao, Y. R. 904
 Zhao, Y. X. 10138
 Zhao, Z. R. 10478
 Zhao, Z. Y. 1971, 6574, 9174
 Zhao AnXiang 4864
 Zhao Cai 1951
 Zhao ChangMin 5703
 Zhao DeWan 3518
 Zhao GuoYun 4130
 Zhao HongJun 3131
 Zhao HongWei 10367
 Zhao HuanPing 4627
 Zhao JuWen 167
 Zhao ShanHuan 2601
 Zhao ShiWei 6189
 Zhao XiangYun 7019
 Zhao Yan 4331
 Zhao Ying 3896
 Zhao Yuan 2151
 Zhao YuanHui 8543
 Zhao YuJu 302, 413, 2211, 2705
 Zhao YuJun 9181
 Zhao Yun 3136
 Zhao ZhengYang 9174
 Zhao ZhongRen 10478
 Zhao ZongYun 1971, 6574
 Zhaong, H. Q. 1827
 Zhaong HuiQun 1827
 Zhdanov, V. V. 4728
 Zhdanova, N. E. 9324
 Zhe, S. J. 3589
 Zhe ShiJiang 3589
 Zheljazkov, V. 3527, 6265
 Zheljazkov, V. D. 5311, 8011
 Zhen, C. X. 8900
 Zhen, H. H. 2889
 Zhen, Z. G. 1290
 Zhen CuiXia 8900
 Zhen HaiHan 2889
 Zheng, D. 5709
 Zheng, G. H. 7118, 7237
 Zheng, G. S. 2114, 8711
 Zheng, J. K. 9103
 Zheng, J. M. 3290
 Zheng, L. 830
 Zheng, Q. F. 10855
 Zheng, Q. Y. 3164
 Zheng, S. K. 3616, 7238
 Zheng, S. Q. 3616, 7238
 Zheng, S. Z. 5703
 Zheng, W. M. 2882
 Zheng, X. C. 10235
 Zheng, X. F. 758
 Zheng, X. H. 820, 8938
 Zheng, X. M. 7117, 10442
 Zheng, X. N. 1601
 Zheng, X. Y. 3257
 Zheng, X. Z. 6454
 Zheng, Y. H. 6062, 6339, 6351
 Zheng, Y. M. 4089
 Zheng GuangHua 7118
 Zheng GuangSheng 2114, 8711
 Zheng GuoHua 7237
 Zheng JinKai 9103
 Zheng QingYun 3164
 Zheng ShaoQuan 3616, 7238
 Zheng ShengZhi 5703
 Zheng ShenKun 3616, 7238
 Zheng WuiMin 2882
 Zheng XianCun 10235
 Zheng XiangMu 7117, 10442
 Zheng XianNian 1601
 Zheng XianZhang 6454
 Zheng XiaoHong 8938
 Zheng XiaoYing 3257
 Zheng YongHua 6062, 6339, 6351
 Zheng YuMei 4089
 Zhidkova, N. I. 3312
 Zhmykhova, V. S. 2561, 2568
 Zholkevich, V. N. 9324
 Zhong, B. J. 664
 Zhong, H. 1507
 Zhong, J. H. 1145
 Zhong, J. J. 9825
 Zhong, M. H. 10839
 Zhong, X. L. 6736
 Zhong BaoJian 664
 Zhong Heng 1507
 Zhong XiLin 6736
 Zhou, A. G. 1133
 Zhou, B. N. 4472
 Zhou, B. Y. 886, 3651
 Zhou, C. 4876
 Zhou, D. C. 8995
 Zhou, D. Q. 9879
 Zhou, D. Y. 2672
 Zhou, E. 1189
 Zhou, F. Z. 9960
 Zhou, G. D. 5580
 Zhou, G. L. 1440
 Zhou, H. 2006
 Zhou, H. C. 5347
 Zhou, H. W. 8374
 Zhou, J. 9813
 Zhou, J. H. 7117, 10442, 10859
 Zhou, J. P. 4279
 Zhou, L. 1702
 Zhou, L. H. 4561
 Zhou, L. X. 539, 1330
 Zhou, M. Q. 36
 Zhou, P. 1080
 Zhou, P. H. 657, 9840
 Zhou, P. S. 1310
 Zhou, Q. 3052, 8359
 Zhou, Q. H. 2015
 Zhou, Q. Y. 7488, 10126
 Zhou, R. 3793
 Zhou, R. B. 7117, 10442
 Zhou, R. Y. 2571
 Zhou, S. F. 2672
 Zhou, S. T. 728, 3897, 4283, 6839
 Zhou, T. S. 5257
 Zhou, X. 5254
 Zhou, X. D. 2907
 Zhou, X. G. 67, 326
 Zhou, X. J. 7235
 Zhou, X. L. 9849
 Zhou, X. P. 10197
 Zhou, X. Q. 613
 Zhou, X. W. 3589
 Zhou, Y. 3137
 Zhou, Y. C. 1835
 Zhou, Y. F. 6445
 Zhou, Y. L. 8394
 Zhou, Y. N. 8359
 Zhou, Y. Q. 4296
 Zhou, Y. R. 1552
 Zhou, Y. S. 4627, 6727, 6975
 Zhou, Y. Y. 1532
 Zhou, Z. G. 5750, 7206
 Zhou, Z. K. 6460
 Zhou, Z. L. 2089
 Zhou, Z. Q. 5623
 Zhou, Z. X. 471
 Zhou AiGin 1133
 Zhou BingNan 4472
 Zhou BiYan 886, 3651
 Zhou Cen 4876
 Zhou DeCheng 8995
 Zhou DeYi 2672
 Zhou En 1189
 Zhou FengZhen 9960
 Zhou GenDi 5580
 Zhou Hong 2006
 Zhou HongWei 8374
 Zhou JiaHuai 7117, 10442
 Zhou JianPing 4279
 Zhou Jun 9813
 Zhou LiHong 4561
 Zhou Lin 1702
 Zhou LiXiang 1330
 Zhou LiXin 539
 Zhou Ping 1080
 Zhou PiSheng 1310
 Zhou PuHau 9840
 Zhou PuHua 657
 Zhou QiHe 2015
 Zhou Qun 8359
 Zhou RuanBao 7117, 10442
 Zhou Rui 3793
 Zhou RuiYang 2571
 Zhou ShanTao 728, 3897, 4283, 6839
 Zhou SuFang 2672
 Zhou TianSu 5257
 Zhou XianDong 2907
 Zhou XianJun 7235
 Zhou XueLin 9849
 Zhou XueQing 613
 Zhou XueWu 3589
 Zhou XuPing 10197
 Zhou Yan 3137
 Zhou YongNian 8359
 Zhou YouSheng 4627
 Zhou YouYuan 1532
 Zhou YuChan 1835
 Zhou YuFang 6445
 Zhou YunLuo 8394
 Zhou YunShan 6727, 6975
 Zhou YuQian 4296
 Zhou YuRong 1552
 Zhou ZhengKe 6460
 Zhou ZhiGuo 7206
 Zhou ZhiQin 5623
 Zhu, A. F. 5868
 Zhu, B. 7197
 Zhu, B. C. 10798
 Zhu, B. G. 6812
 Zhu, C. 2415, 10658, 10744
 Zhu, C. H. 675
 Zhu, H. Y. 1759, 1834, 7337
 Zhu, J. C. 6735, 7790
 Zhu, J. H. 2944
 Zhu, J. J. 2675
 Zhu, J. K. 5981
 Zhu, J. Q. 8163, 8165
 Zhu, L. 2553
 Zhu, L. H. 1183, 3483
 Zhu, L. W. 1145
 Zhu, R. G. 3611
 Zhu, S. D. 3070
 Zhu, W. Y. 9181
 Zhu, X. J. 10238
 Zhu, X. Z. 10265
 Zhu, Y. H. 830
 Zhu, Y. P. 5740
 Zhu, Z. J. 4100, 4260
 Zhu, Z. Y. 326
 Zhu AiFeng 5868
 Zhu BaoCheng 10798
 Zhu BaoGe 6812
 Zhu Biao 7197
 Zhu Cheng 2415, 10658, 10744
 Zhu HuiYin 7337
 Zhu HuiYing 1759, 1834
 Zhu JianChun 7790
 Zhu JianHua 2944
 Zhu JianKang 5981
 Zhu JiCheng 6735
 Zhu JingJie 2675
 Zhu JunQing 8163, 8165
 Zhu LiHong 3483
 Zhu Ling 2553
 Zhu ShiDong 3070
 Zhu WenYong 9181
 Zhu YuPing 5740
 Zhu ZhuJun 4100, 4260
 Zhuang, H. 2201, 4121
 Zhuang, T. D. 9849
 Zhuang Hong 4121
 Zhuang TiDe 9849
 Zhukova, L. A. 9681
 Zhunisbaev, R. T. 3790
 Zhuzhalova, T. P. 8051
 Ziapkov, D. 7651
 Zidan, M. A. 9832, 10746
 Zidan, Z. H. 9513-9514
 Zidar, S. 7535
 Ziegler, G. 7287
 Zieslin, N. 4404-4405, 7097
 Zigo, A. 5647
 Zilkah, S. 1992, 4832
 Zimbalatti, G. 1760, 6328, 6362, 7246-7247
 Zimin, M. V. 7756
 Zimmer, J. 8307
 Zimmer, K. 683
 Zimmerlin, A. 426
 Zimmerman, J. K. 7944
 Zimmerman, N. J. 5888
 Zimmerman, R. H. 1167, 5558
 Zimmerman, U. 5248
 Zimmermann, H. G. 9920
 Zimniak-Przybylska, Z. 5951
 Zindler-Frank, E. 2230
 Zingarelli, L. 4365
 Zini, M. 194, 4861
 Zink, D. L. 5870
 Zinnai, A. 7503, 10153
 Zinoun, M. 10806
 Zinovieva, S. V. 520
 Zioganas, C. 313
 Zion, B. 1986, 9702
 Zioziou, E. 6701
 Zippo, M. 5287
 Ziska, L. H. 4063
 Zislavsky, W. 1086
 Zitko, S. E. 9890, 10845
 Zito, R. K. 8532
 Ziv, O. 475
 Zlatanov, M. 3521
 Zmarlicki, K. R. 8317
 Zmuda, E. 2064, 2888, 4787
 Znamenskaya, V. V. 8051
 Zobelt, U. 1510
 Zocchi, G. 2205, 2824, 5896, 9218
 Zode, V. N. 3390
 Zong, R. J. 4120
 Zong, X. P. 4824
 Zong RuJing 4120
 Zonia, L. 1109
 Zoppello, G. 6034
 Zora, V. 4546
 Zora Singh 1716
 Zornoza, P. 6817, 8570
 Zorzi, G. 2870
 Zöschg, M. 7481
 Zossi, S. 7403
 Zou, H. Q. 1739, 4525
 Zou, H. X. 4502
 Zou, Y. Z. 7168
 Zou HanXuan 4502
 Zou HeQing 1739, 4525

Zou YuZhen 7168
Zoysa, G. M. de 2741
Zoz, N. N. 2291, 9608
Zozor, Y. 6372
Žray, Gy. 5895
Żródlowski, Z. 6969
Zu, G. F. 8393
Zu GuoFa 8393
Zubair, M. 10691
Zubenko, V. F. 8050
Zuber, M. 10341
Zubritskii, V. A. 5983
Zufferey, V. 6699-6700
Zukowska, E. 550, 4967-4968
Zulnerlin, I. 10915
Žunić, D. 3037
Zuo, W. N. 9108
Zuo, X. M. 10314
Zuo WeiNeng 9108
Zur, M. 5952
Zur-Kunik, T. 1450
Żurawicz, E. 2057, 4882, 7581
Zurera Cosano, G. 2265, 6880
Zurlo, P. 5751, 6356
Žutić, I. 318
Zutkhi, Y. 184, 6724
Zvára, J. 3787
Zveibil, A. 6088
Zvetkov, R. 10765
Zwanepol, S. 2796, 3704, 4157,
8194
Zwart-Roodzant, M. H. 8201
Zweig, E. 2703
Zweig, R. 2703
Zwet, T. van der 6628
Zwiggelaar, R. 9305, 10574
Zwygart, T. 6203
Zyl, J. L. van 3561

SUBJECT INDEX

- Abelmoschus esculentus* (see Okras)
Abelmoschus moschatus
 cultural methods, China 8900
 seeds, germination, temperature 8900
 soil types 8910
Abroma augusta, soil types 8910
Abutilon, ornamental value 8865
Abutilon indicum
 allelopathy 8211
 nutritive value 1916
Abutilon pictum, plant, physiology 7099
Abutilon theophrasti, as weeds, ornamental
 woody plants 7071
Acacia
 cultivars, characteristics, Australia 9642
 cuttings
 sources
 etiolation 9794
 juvenility 9794
 ringing 9794
 pest control, *Acizzia uncatoides* 729
 pot plants
 production, cultural methods 9793
 species 9793
 species, ornamental value 9793
Acacia amoena
 cut flowers
 vase life 4408
 water relations 4408
Acacia cometes, pot plants, production, cul-
 tural methods 9793
Acacia drummondii, pot plants, production,
 cultural methods 9793
Acacia filicina, pot plants, production, cul-
 tural methods 9793
Acacia glaucoptera, pot plants, production,
 cultural methods 9793
Acacia lineata, pot plants, production, cul-
 tural methods 9793
Acacia polybotrya, pot plants, production,
 cultural methods 9793
Acacia semilunata, pot plants, production,
 cultural methods 9793
Acacia senegal, grafting, techniques,
 micropropagation 7184
Acacia smallii, planting stock, production,
 containers 3467
Acacia stenophyllum, planting stock, pro-
 duction, containers 3467
Acacia vestita, pot plants, production, cul-
 tural methods 9793
Acalitus essigi, blackberries 228
Acalymma vittatum
 melons 910
 watermelons 6417
Acanthaceae
 seedlings, development, morphology
 5158
 seeds, germination, tests 5158
Acanthocereus colombianus
 photosynthesis, salinity 7258
 salinity, responses 7258
Acanthopanax senticosus (see *Eleutherococ-
 cus senticosus*)
Acanthopanax rubra, plant, biochemistry
 7843
Acanthus mollis, leaves, physiology 9676
Acanthus spinosus, leaves, physiology 9676
Acari
 apples 114, 2892, 5612
Capsicum 10529
 cherries 1993
 grapes 1922, 2892, 3060, 8474
 plums 1993
 small fruits 3907
 temperate fruits 1922
Acaricides
 bromopropylate, injuries, oranges 2599
 diflubenzuron, injuries, oranges 2599
 sulfur, injuries, oranges 2599
 tetradifon, residues, apricots 1987
Acaulospora, mycorrhizas, horticultural
 crops 877
Acaulospora appendicula, mycorrhizas,
 oranges 8061
Acaulospora laevis, mycorrhizas, grapes 274
Acaulospora longula, mycorrhizas, oranges
 8061
Acaulospora morrowae
 mycorrhizas
Cyamopsis tetragonoloba 3209
 oranges 8061
Ziziphus mauritiana 5518
Ziziphus xylopyrus 11017
Acaulospora scrobiculata, mycorrhizas,
 oranges 8061
Acaulospora spinosa, mycorrhizas, oranges
 8061
Acca sellowiana (see Feijoas)
Acer freemanii
 cultivars
 composition 9796
 identification 730
 leaves, morphology 730
 photosynthesis
 cultivars 6209
 measurement 6209
 respiration
 cultivars 6209
 measurement 6209
 transpiration
 cultivars 6209
 measurement 6209
Acer macrophyllum, leaves, composition
 10638
Acer negundo, leaves, composition 4243
Acer palmatum
 grafting, unions, treatment 10716
 plant water relations, assessment 2475
Acer platanoides
 grafting, scions, assessment 5259
 leaves, physiology 10070
 plant water relations, measurement 6210
 planting stock, storage 6210
 salinity, injuries 2469
Acer pseudoplatanus
 plant
 injuries, surveys 2463
 size, assessment 6184
 salinity, injuries 2469
Acer rubrum
 budding, unions, physiology 2489
 characteristics 731
 cultivars
 composition 9796
 identification 730
 cuttings, rooting, irrigation 1517
 herbicides, injuries 2472
in vitro culture
 propagation
 micropropagation 7100
 responses 731
 leaves, morphology 730
 photosynthesis
 cultivars 6209
 measurement 6209
 planting stock
 establishment 6211
 production, containers 9795
 size 6211
 types, assessment 2489
 respiration
 cultivars 6209
 measurement 6209
 transpiration
 cultivars 6209
 measurement 6209
Acer saccharinum, cultivars, characteristics,
 USA 9768
Aceratium megalospermum
 ornamental value 1018
 wild plants, edible species 1018
Aceria mangiferae, mangoes 4626, 6430
Aceria sheldoni, Citrus 3596
Aceria tulipae, garlic 3085
Acetaldehyde
 metabolism
 handling, persimmons 9917
 storage
 apricots 2928
 broccoli 4119
 figs 7526
 mandarins 8968
 oranges 8968
Prunus 7524
 strawberries 7526
 responses, mangoes 9058
Acetates
 metabolism
in vitro culture
 carrots 54
Cyrtomium falcatum 54
 Jerusalem artichokes 54
Nephrolepis cordifolia 54
Nephrolepis exaltata 54
Petunia 54
Acetogenins, composition, avocados 7191
Achillea collina
 seeds
 development
 apomixis 8761
 embryology 8761
Achillea erba-rotta, taxonomy, nomenclature
 5329
Achillea filipendulina, cut flowers, produc-
 tion, USA 1529
Achillea lewisii
 forcing 595
 pot plants, production, cultural methods
 595
Achillea millefolium
 ecology, Russia 2537
 flowers
 development
 light 9677
 temperature 9677
 herbicides, tolerance 6085
 rhizomes, development, light 4452
 seeds
 development
 apomixis 8761
 embryology 8761
Achillea pannonica
 seeds
 development
 apomixis 8761
 embryology 8761
Achras zapota (see Sapodillas)
Acid rain
 toxicity
Phaseolus vulgaris 3197
 vegetables 1263
Acids, responses, pineapples 5505
Acizzia uncatoides
Acacia 729
Albizia 729
Acmella oppositifolia, taxonomy, chemotax-
 onomy 6273
Acmena, cultivars, characteristics, Australia
 9642
Acorus calamus, anoxia 9710
Acrobasis nuxvorella, pecans 2979
Actinidia (see also Kiwifruits)
 cultivars, composition 4863
 hybrids, composition 4863
 leaves, biochemistry 8396
 roots, biochemistry 8396
 species, composition 4863
Actinidia arguta
 cultivars, characteristics, China 1184
 frost, resistance, assessment 3908
in vitro culture
 explants, sources 1185
 propagation, micropropagation 1185
 protoplasts, isolation 3912
Actinidia eriantha
 as rootstocks, kiwifruits 2995
 cold, responses 10268
 flowers, development, seasons 3913

- Actinidia eriantha** *cont.*
heat, responses 10268
in vitro culture, protoplasts 8394
soil pH, responses 10268
water stress, responses 10268
- Actinidia hemsleyana**, as rootstocks, kiwifruits 2995
- Actinidia kolomikta**
ecology, Russia 4869
frost, resistance, assessment 3908
plant
anatomy 1636
development, assessment 4869
protoplasts, isolation 3912
- Actinidia polygama**
frost, resistance, assessment 3908
protoplasts, isolation 3912
- Activated carbon**
utilization
in vitro culture
Garrya elliptica 6222
horticultural crops 6497
oil palms 2725
roses 9783
- Aculus**
apples 2891
fruit crops 7484
- Aculus fockeui**, plums 7548
- Aculus schlechtendali**, apples 1096
- Acylglycerols**
biosynthesis, cauliflowers 4115
composition
oil palms 926
small fruits 5701
Zantedeschia aethiopica 1559
determination
Cucurbita pepo 6740
lettuces 6740
spinach 6740
metabolism
development
Dioscorea tokoro 8918
olives 10887
germination, *Dioscorea tokoro* 8918
light, squashes 5917
photoperiod, squashes 5917
ripening
peaches 179
small fruits 5701
salinity, olives 10887
senescence, *Petunia* 9675
temperature
Dioscorea tokoro 8918
squashes 5917
water stress, peas 1394
- Acyrtosiphon pisum**, peas 3214
- Adalia bipunctata**
control
of *Acizzia uncatoides*
Acacia 729
Albizia 729
- Adansonia**, wild plants, utilization, Madagascar 8170
- Adansonia digitata**
fruits, composition 8171
nutritive value 8171
- Adelges tsugae**, *Tsuga* 7951
- Adenium arabicum**, characteristics 7040
- Adenium socotranum**, characteristics 7040
- Adenium somalense**, characteristics 5224
- Adenophora**, taxonomy, chemotaxonomy 4450
- Adenosine phosphates**, metabolism, iron, *Malus* 2889
- Adiantum capillus-veneris**
chloroplasts, movement, light 5220
cytology 2431, 8816
plant, development, histology 8815
- Adiantum raddianum**, leaves, composition 8817
- Adonis vernalis**, ecology, Russia 2537
- Adoxophyes orana**
apples 2905, 3784, 7486
pears 2905
- Aegle marmelos**
in vitro culture
biochemistry 1768
propagation, micropropagation 8997, 9846
seeds
germination, storage 9845
- Aegle marmelos** *cont.*
seeds *cont.*
storage, seed treatment 9845
wild plants, edible species 1917
- Aerangis distincta**, cultural methods, UK 10697
- Aesculus hippocastanum**
grafting, scions, assessment 5259
leaves, physiology 10070
plant, injuries, surveys 2463
- Aesculus parviflora**, cuttings, treatment 2490
- Africa**
bananas, cultivars 6374
books, wild plants, edible species 8177
coffee
cultural methods 7292
production 7292
Orchidaceae, wild plants, surveys 2438
succulent plants, wild plants, surveys 2438
Uapaca kirkiana, ecology 4654
- Aganostma caryophyllata**, plant, composition 7947
- Agapanthus africanus**, pollen, tubes, development 3403
- Agapanthus praecox**
pollination, pollinators, hummingbirds 5178
seeds, development, assessment 5178
- Agaricus** (see also Mushrooms)
growing media, composition 2334
taxonomy, keys 9628
- Agaricus arvensis**
pollution
cadmium 6969
copper 6969
lead 6969
- Agaricus augustus**, composition 563
- Agaricus bitorquis**
growing media, water relations 3346
mycelium, growth 3346
- Agaricus blazei**, *in vitro* culture, protoplasts 2354
- Agaricus campestris**
composition 563
fructification 10586
storage, treatment 572
- Agaricus fiardii**, fructification 10586
- Agaricus nivescens**, fructification 10586
- Agaricus pampeanus**, fructification 10586
- Agaricus pseudoargentinus**, fructification 10586
- Agave**
cultivars, assessment, India 7150
geographical distribution 10767
leaves, composition 10767
plant nutrition 9839
species, assessment, Egypt 9839
utilization 10767
- Agave americana**
photosynthesis, measurement 1912
products, feeds 5225
utilization, agroforestry 5225
- Agave angustifolia**, leaves, biochemistry 5326
- Agave deserti**
photosynthesis, carbon dioxide 5226
plant, biochemistry 5226
roots
development
carbon dioxide 7041
temperature 7041
transpiration, carbon dioxide 5226
- Agave filifera**, taxonomy, new taxa 1589
- Agave kerchovae**, plant nutrition 9839
- Agave potatorum**
ornamental value 5227
seeds
production, assessment 5227
viability, assessment 5227
- Agave salmiana**, photosynthesis, carbon dioxide 8108
- Agave sisalana**
cultivars, assessment, India 7150
plant nutrition 9839
processing, automation 6269
production, Tanzania 2534, 4446
utilization, agroforestry 5225
- Agave vilmoriniana**
bulbils
development, assessment 10679
- Agave vilmoriniana** *cont.*
bulbils *cont.*
physiology 10679
- Ageratum conyzoides**
as weeds
Citrus 9884
mangoes 9884
plant extracts, application, mandarins 847
- Ageratum houstonianum**
herbicides, tolerance 2377
irrigation, frequency 6105
planting stock, production, containers 6105
weed control 2377
- Aglaonema modestum**, disease control, *Glomerella cingulata* 675
- Agricultural wastes**
utilization
mulches, lawns and turf 2424
soil amendments, lawns and turf 2424
- Agriculture**, dictionaries, languages 1869
- Agrilus mali**, apples 1098
- Agrobacterium tumefaciens**
fruit crops 2845, 7479
roses 7962
- Agrobacterium vitis**, grapes 6707, 10335
- Agrocybe**, growing media, utilization 2355
- Agrocybe cylindracea**, composition 6976
- Agroforestry**
books 10039
new journals 984
- Agropyron repens** (see *Elymus repens*)
- Agrostis**
cultivars, assessment, USA 5209
fertilizers, nitrogen 4347-4349
weed control 6143
- Agrostis capillaris**
cultural methods, golf courses 6140
parasitic plants, *Rhinanthus minor* 6142
plant nutrition, nitrogen 6142
shade, responses 4344
- Agrostis castellana**, quality, assessment 7911
- Agrostis stolonifera**
cultural methods, golf courses 6140
plant competition, *Zoysia matrella* 7910
shade, responses 4344
- Agrostis stolonifera** *var. palustris*
cultivars, identification 9719
disease control
Pythium graminicola 10672
Sclerotinia homoeocarpa 8808
fertilizers
nitrogen 4350
potassium 4350
fungicides
residues 8808
surfactants 8808
mowing 1582
pest control
Agrotis ipsilon 9724-9725
Pyralidae 9724-9725
plant growth regulators, alcohols, responses 1031
quality, assessment 1582, 2428, 4350
weed control 668
- Agrostis tenuis** (see *Agrostis capillaris*)
- Agrostophyllum callosum**, plant, composition 7931
- Agrostophyllum khasianum**, plant, composition 8834
- Agrotis ipsilon**
lawns and turf 4352, 9724-9725, 9729
okras 7770
- Air layering**
responses, cashews 10913
seasons, *Pimenta dioica* 7994
techniques
grapes 4906
guavas 1820
Hevea 9069
treatment
plant growth regulators
guavas 2715
jackfruits 2671, 5451, 8113
Litchi 8089
- Air pollution** (see *Pollution*)
- Aira elegantissima**, dried flowers, production 9654
- Aizoaceae**, cultural methods, USA 673
- Ajuga pyramidalis**
in vitro culture, biochemistry 9823

- Ajuga pyramidalis** *cont.*
leaves, composition 9823
- Ajuga reptans**
flowers, colour, biochemistry 7002
leaves, biochemistry 5179
protoplasts, biochemistry 5179
shade, responses 5160
- Akaropeltopsis**, avocados 4478-4479
- Albania**
fruit crops
disease control 7479
pest control 7479
- Albizia**
as shade plants, coffee 5479
pest control, *Acizzia uncatoides* 729
- Albizia julibrissin**
in vitro culture
organogenesis 5277
propagation, micropropagation 6213
seedlings, biochemistry 3220, 6212
- Albizia zygia**, as shade plants, cocoa 890
- Albica**, taxonomy, keys 8784
- Albugo candida**
Brassicaceae 10455
Brussels sprouts 9430
- Albugo occidentalis**, spinach 2147
- Alcea rosea**
flowers, colour, biochemistry 8894
herbicides, injuries 6085
- Alchemilla elisabethae**, taxonomy, keys 1547
- Alchemilla erythropoda**, taxonomy, keys 1547
- Alchemilla sericata**, taxonomy, keys 1547
- Alchemilla tephroserica**, taxonomy, keys 1547
- Alcohols**
application methods, oranges 9889
biochemistry
celery 1488
tea 7369
characterization, *Cereus peruvianus* 8823
composition
kale 391
Litchi 6348
longans 6348
olives 8988
strawberries 9374
swedes 391
Tuber magnatum 10603
metabolism
flooding, kiwifruits 214
flowering, essential oil plants 10756
handling, persimmons 9917
irrigation, olives 5425
ripening, *Pyrus ussuriensis* 10242
storage
apricots 1989, 2928
figs 7526
grapefruits 5402
hazelnuts 10201
mandarins 8968
mangoes 5497
oranges 5402, 8968
Prunus 7524
strawberries 7526
waterlogging, *Pyrus* 10237
responses
avocados 815
cucumbers 3496
horticultural crops 1031
kiwifruits 540
lettuces 4992
mangoes 9058
okras 6893
oranges 9889
Pyrus 10237
roses 3496
tomatoes 540, 3496
vegetables 321
treatment
apples 1978
broccoli 4119
tomatoes 5129
- Aldehydes**
composition
coffee 3662
kale 391
lettuces 1305
strawberries 9374
swedes 391
- Aldehydes** *cont.*
metabolism
harvesting date, peaches 182
ripening
apricots 10186
Pyrus ussuriensis 10242
tomatoes 4248
storage
nectarines 185
peaches 182, 185
Pyrus bretschneideri 3894
uptake, *Nerium oleander* 7116
- Alepidea**, taxonomy, chemotaxonomy 4453
- Alepidea amatymbica**, taxonomy, chemotaxonomy 4453
- Aleurocanthus woglumi**
Citrus 1727
mandarins 1726, 10850
- Aleurothrixus floccosus**, *Citrus* 1736
- Aleyrodidae**
control, of insects, *Citrus* 1735
cucumbers 2307
melons 3665
tomatoes 2307
vegetables 5777
- Algae** (see also Seaweeds)
as weeds, *Valerianella locusta* 3328
composition 3555, 6295, 8934
cultural methods, India 5354
edible species 3322
in vitro culture
callus, growth 3556
culture media 3326-3327, 3556
responses, light 3556
nutritive value 3325
plant
biochemistry 774, 4470, 10807
light 776-777
salinity 777
composition 775, 779, 8219
plant nutrition, nitrogen 3557
production 3322
salinity, responses 776-777
translocation, physiology 560
utilization
fertilizers, mangoes 7333
reviews 3554
soil amendments, radishes 6800
- Alhagi sparsifolia**, cultural methods, China 7155
- Alkaloids**
biochemistry, tea 7369
biosynthesis
Catharanthus roseus 4456
coffee 902, 4603, 4605, 7307
Datura stramonium 2543-2544
Polygonum tinctorium 6255, 8001
characterization
Delphinium formosum 8766
grapefruits 4513
pummelos 4513
composition
Amaranthus 4257
Boerhavia diffusa 3538
Catharanthus roseus 8025
Delphinium formosum 8767
Erythroxylum coca 1684
Gymnocalycium 6159
Leucosium aestivum 2558
Narcissus 9708
Physalis ixocarpa 875
tea 4650, 6462, 7368
tomatoes 548, 3301, 6939
metabolism
biochemistry, coffee 5482, 7308
climate, tea 9090
cultivars, tea 2767
development, *Capsicum* 7778
in vitro culture, coffee 9035
nitrogen, tea 5512
plant growth regulators, tea 6457
seasonal variation
Datura metel 1682
tea 9098
soil types, *Datura metel* 9842
temperature, *Erythroxylum* 8922
production, *in vitro* culture, *Hyoscyamus muticus* 2557
responses
chicory × endives 4980
Opuntia ficus-indica 9921
- Alkaloids** *cont.*
taxonomy
Erodium 2546
Spirospermum penduliflorum 5344
Strychnopsis thouarsii 5344
- Alkanes**
composition
kale 391
swedes 391
- Alkynes**
biosynthesis, *Asparagus* 5067
characterization, *Asparagus* 1407
production, *in vitro* culture, *Lobelia cardinalis* 4310
- Allamanda cathartica**, plant, composition 7947
- Allamanda violacea**, plant, composition 7947
- Allelopathy**
Acacia auriculiformis 7355
Acacia confusa 7355
Amaranthus retroflexus 1266
celery 1308
Chenopodium murale 1266
Delonix regia 7355
Echinacea angustifolia 8920
Eucalyptus citriodora 7355
Eucalyptus robusta 7355
horticultural crops 8211
Leucaena leucocephala 7355
Paraserianthes falcataria 7355
Parthenium hysterophorus 5069
Polygonum aviculare 3126
Salix koreansis 3126
Solidago altissima 7685
tea 7355
Wedelia chinensis 8044
- Allergens**
characterization
apples 1113, 6591
Litchi 6349
composition
coconuts 898
Cucurbita moschata 8586
mangoes 8153
olives 9912
onions 2139
Pleurotus ostreatus 3369
Spathiphyllum wallisii 7052
- Allium** (see also Chives; Garlic; Leeks; Onions; Shallots; Welsh onions)
breeding, interspecific hybridization 2409
genetics 10652
insecticides, injuries 6762
species, characteristics, Taiwan 5797
taxonomy
chemotaxonomy 8512
reviews, books 5532
revisions 2410
- Allium altissimum**
flowers
development, assessment 7023
initiation, assessment 7023
- Allium christophii**, genetics 10652
- Allium giganteum**, genetics 10652
- Allium karataviense**
flowers
development, assessment 7023
initiation, assessment 7023
planting stock, overwintering 6121
pot plants, production, cultural methods 6121
- Allium longicuspis**
in vitro culture
contaminants 5781
responses, antibiotics 5781
- Allium mongolicum**, wild plants, edible species 3102
- Allium neapolitanum**
bulbs, storage, temperature 5203
flowers
development
assessment 5203
temperature 5203
- Allium ramosum**, production, Taiwan 5797
- Allium rothii**
flowers
development, assessment 7023
initiation, assessment 7023
- Allium tuberosum**
production, China 5810

- Allium tuberosum* cont.
rain, responses 1264
seeds, composition 1265
- Allium turcicum*, taxonomy, new taxa 2400
- Allium unifolium*
bulbs, storage, temperature 10653
flowers, initiation, temperature 10653
- Allium ursinum*
ecology, Ukraine 7156
plant, morphology 7156
- Allium wakegi*
bulbs
development
biochemistry 3103
plant water relations 3103
- Alluaudia*, characteristics 5216
- Alluaudia comosa*, characteristics 5216
- Alluaudia dumosa*, characteristics 5216
- Alluaudia procera*, characteristics 5216
- Alluaudiopsis*, characteristics 5216
- Almonds**
as rootstocks, apricots 10176
cultivars
composition 7450
pest resistance 1892
disease control
bacteria 3750
Cryptosporiopsis 8239
USA 9167
Xylella fastidiosa 3750
flowers
development, seasons 1061
initiation, seasons 1061
morphology 8240
fruits
quality, flowering 3756
ripening, plant growth regulators 2836
set, planting 1925
handling, techniques 6535
harvesting, techniques, mechanical harvesting 5588
leaves, composition 10064
marketing
European Union countries 74
Spain 74
USA 74
mulching, responses 10086
nuts, biochemistry 2849
pest control
Amyelois transitella 3754
Anarsia lineatella 3754
USA 2852, 9167
photosynthesis
measurement 3755
physiology 3755
plant nutrition, boron 7445
plant training, systems 3747
plant water relations
cultivars 10091
measurement 2614
water stress 10091
planting, systems 1925
pollination, compatibility 73
reproduction, biology 8240
rootstocks
characteristics 4723
Mediterranean Region 10090
propagation
cuttings 3741-3742
techniques 4723
seedlings
development
biochemistry 5589
plant growth regulators 5589
shoots, histology 10083
soil management, systems 2851
soil solarization 1033
water stress, responses 10091
weed control 1033
weeds, populations, assessment 2850
- Almonds × peaches**
as rootstocks
almonds 10090
peaches 4829, 5654, 9285
- Alnus*, plant extracts, application, *Pleurotus ostreatus* 3370
- Alnus rubra*, roots, development, plant growth regulators 7073
- Alnus sinuata*, cultivars, clones 4386
- Alnus viridis*, cultivars, clones 4386
- Alocasia regina*, pot plants, quality, fertilizers 7042
- Aloe**
ornamental value 5228
taxonomy, chemotaxonomy 5155
- Aloe arborescens*, shade, responses 10774
- Aloe barbadensis*
in vitro culture, propagation, micropropagation 4360, 8819
shade, responses 10774
- Aloe candelabrum*, taxonomy, nomenclature 10680
- Aloe chrysostachys*, taxonomy, nomenclature 9733
- Aloe diolii*, taxonomy, new taxa 1590
- Aloe divaricata*
fruits, set, pollination 1591
pollination, pollinators, *Nectarinia souimanga* 1591
- Aloe ferox*, taxonomy, nomenclature 10680
- Aloe harlana*, *in vitro* culture, propagation, micropropagation 4360
- Aloe meruana*, taxonomy, nomenclature 9733
- Aloe pruinosa*, characteristics 5330
- Aloe saponaria*, shade, responses 10774
- Aloe scabrifolia*
leaves, composition 9734
taxonomy, chemotaxonomy 9734
- Aloe turkanensis*
leaves, composition 9734
taxonomy, chemotaxonomy 9734
- Aloe vera* (see *Aloe barbadensis*)
- Alpinia*, cut flowers, production possibilities, Mauritius 10605
- Alpinia galanga*, *in vitro* culture, propagation, micropropagation 1660
- Alpinia purpurata*
characteristics 6106
mutants, induction, gamma radiation 5204
pest control
Aphis gossypii 653
Pentalonia nigronervosa 653
Pheidole megacephala 653
Sciothrips cardamomi 653
Technomyrmex albipes 653
- Alpinia zerumbet*
pollen
composition 8020
morphology 8020
- Alstroemeria**
cultivars, flowering date 7025
cut flowers
production, cultural methods 1570, 7025
responses, plant growth regulators 5205
flowers, composition 7024
growing media, temperature 1570
in vitro culture, callus, growth 654
leaves, senescence 5205
photosynthesis, temperature 10654
planting, planting date 7025
planting stock, size 7025
translocation
source sink relations 10654
temperature 10654
- Alternaria**
Brassicaceae 3150
clementines 10823
dates 5416
kumquats 845
Magnolia grandiflora 4392
tomatoes 2305, 10572
- Alternaria alternata*
apples 2920, 10164
Capsicum 470, 475
celery 1490
pears 10164
persimmons 1765
Phaseolus coccineus 1380
tangelos 3593
tomatoes 527, 5127, 6039
- Alternaria brassicae*, cauliflowers 10447
- Alternaria citri*
Citrus junos 10864
mandarins 6342
oranges 8970
- Alternaria dauci*, carrots 6952, 8705
- Alternaria dianthi*, carnations 6994
- Alternaria humicola*, populations, rhizosphere, tea 11005
- Alternaria kikuchiana*
pears 10236
Pyrus pyrifolia 1158
- Alternaria porri*
garlic 7654, 10371-10372
onions 10383-10384
- Alternaria solani*, *Capsicum* 470
- Althaea rosea* (see *Alcea rosea*)
- Altitude**
responses
apples 3777, 4793
Bupleurum falcatum 1680
Bupleurum kaoi 1680
Calotropis procera 10781
cashews 1790
coffee 5480, 10926
Cymbidium 6170, 10700
garlic 5784
grapes 9387
mandarins 10837
olives 9909
oranges 10837
Pelargonium 8906
persimmons 8991
Phytolacca dodecandra 2563
shallots 5784
strawberries 4884
tea 9090
- Aluminium**
composition
bananas 9935
grapes 4001
Ilex paraguariensis 10788
Juglans 10261
tea 9103
vegetables 9439
metabolism, seasonal variation, *Asparagus* 3226
plant nutrition
Capsicum 2279
tea 4645
responses
bedding plants 6990
cherries 3819
chrysanthemums 9665
Phaseolus vulgaris 5940
tea 2766, 7359
toxicity
Cucurbita maxima 2204
garlic 1278, 7673
onions 4041, 7673
uptake
Cassia senna 8027
Cleome droserifolia 8027
- Aluminium foil**
utilization
mulches, apples 4779
shading, kiwifruits 211
- Amanita fulva*, pollution, radionuclides 7845
- Amaranthus**
as weeds
endives 7687
lettuces 7687
melons 9041
okras 2270
olives 7242
watermelons 9041
species, identification 1493
- Amaranthus blitoides*
as weeds
almonds 2850
olives 7242-7244
plant, composition 4257
- Amaranthus caudatus*, plant, development, photoperiod 3324
- Amaranthus cruentus*
plant water relations, flowering 10582
water stress, responses 10582
- Amaranthus edulis*, photosynthesis, biochemistry 4258
- Amaranthus hypochondriacus*
chloroplasts, biochemistry 5144
photosynthesis, light 4301
- Amaranthus lividus*
cold, responses 557
seeds, germination, temperature 557
- Amaranthus mantegazzianus*
cropping systems, rotations 10583
harvesting, techniques, assessment 6054

Amaranthus palmeri, plant, composition 4257

Amaranthus retroflexus 7702

as weeds

apples 1075
broccoli 1326
cabbages 7702
carrots 7834
onions 9442
tomatoes 500

plant, composition 4257

Amaranthus spinosus, as weeds, lettuces 9458

Amaranthus tricolor

cropping systems, intercropping 8715
intercropping, bananas 8715
plant composition 4443
plant nutrition, manganese 3323
seeds, production, cultural methods 8715

Amaranthus viridis

leaves, biochemistry 4259, 6055
plant, composition 4257
plant nutrition, manganese 3323

Amblyseius andersoni

control

of *Panonychus ulmi*, apples 2895
of *Tetranychus urticae*, hops 1678

Amblyseius barkeri

control

of *Frankliniella occidentalis*, cucumbers 6824
of *Polyphagotarsonemus latus*, *Capsicum* 477
of *Thrips tabaci*, cucumbers 6824

Amblyseius degenerans, control, of *Frankliniella occidentalis*, *Capsicum* 8632

Amblyseius idaeus

control

of *Tetranychus urticae*
cucumbers 5902
strawberries 5902

Amelanchier, characteristics 10304

Amelanchier melanocarpa (see *Aronia melanocarpa*)

Amelanchier ovalis, cultivars, ornamental value 8866

Americium, uptake, vegetables 6730

Ameris ynca, coconuts 4597

Amides

determination, *Capsicum* 10532

metabolism

light, *Cyamopsis tetragonoloba* 2243
maturity, *Capsicum* 7779
nitrogen, tea 5512

responses, leeks 4030

taxonomy

Acmella oppositifolia 6273
Heliopsis longipes 6273

Amines

composition

Aloe arborescens 10774
Aloe barbadensis 10774
Aloe saponaria 10774

metabolism, flowering, strawberries 254

responses, peaches 7530

Amino acids

biochemistry

carrots 6957
tea 7369
tomatoes 2309

composition

Actinidia 4863
almonds 7450
Aloe arborescens 10774
Aloe barbadensis 10774
Aloe saponaria 10774
broccoli 9417
cabbages 9417
carrots 9417
Citrus 4516
cucumbers 2223
edible fungi 1497, 3331
grapes 1256
Hericium erinaceus 1503
Lentinula edodes 5149
Malus micromalus 10168
Momordica charantia 8587
onions 9417
Osmunda japonica 1497
persimmons 4561, 10896

Amino acids cont.

composition cont.

radishes 9417
Rubus 1196, 9348
satsumas 10842
spinach 2149, 3109, 10404
tea 4650, 6460, 7368
Terfezia boudieri 10601
Tirmania nivea 10601
vegetables 10362

determination, *Gymnocladus dioica* 734

leakage

lettuces 9449
Welsh onions 9449

metabolism

alcohols, okras 6893
biochemistry, peas 8614
carbon dioxide, *Opuntia ficus-indica* 7257

cropping systems, tea 2755

development, melons 5490

disorders, oil palms 2728

fertilizers

cabbages 2183
leeks 9435

flowering, cashews 7282

germination, carobs 10821

in vitro culture

Hevea 2742
limes 3603
oil palms 6433
tomatoes 3302
Vicia faba 6856

insecticides, dates 852

irregular bearing, mandarins 7215

maturity, *Agroclype cylindracea* 6976

molybdenum, tea 11008

nitrogen

apples 8282
tea 5512, 5514

plant growth regulators

peas 6869
tea 6457

tomatoes 6032

Trigonella foenum-graecum 5324

plant nutrition, tomatoes 512, 8690

pollution, peas 6869

potassium, *Cymbidium sinense* 1604

ripening

melons 5490
passion fruits 8990
tomatoes 6032

rootstock scion relationships, grapes 3032

salinity

Capsicum 5998, 8627
Mesembryanthemum crystallinum 4366, 5244
onions 1289
peaches 3849, 3857
peas 5966

spice plants 10746

tomatoes 6941, 10550, 10561

seasonal variation

algae 3325

Crithmum maritimum 8916

seed treatment, *Trigonella foenum-graecum* 5324

senescence, *Mirabilis jalapa* 4311

soil amendments, *Phaseolus vulgaris* 6845

somatic embryogenesis, coconuts 1798

storage

Asparagus 10515
grapefruits 7220
oranges 7220

sulfur, tea 959

temperature

peas 10505
tomatoes 546

water stress

durians 4652
grapefruits 7210
peas 6868

tomatoes 1461

Vicia faba 6856

zinc, tea 11008

responses

apples 126
carnations 1535-1536

Amino acids cont.

responses cont.

carrots 6957
grapes 6721
mushrooms 6064
olives 7249
peas 1389
radishes 5011, 9494
roses 6207
tomatoes 5104
Vicia faba 5104

toxicity, *Nicotiana sylvestris* 3418

translocation, tomatoes 5112

Amietermes desertorum, dates 6346

Ammi majus, *in vitro* culture, organogenesis 5331

Ammi visnaga, as weeds, onions 5820

Ammonia

adsorption, ornamental woody plants 8843

fixation, mushrooms 4268

toxicity

Arachniodes adiantiformis 8818
tomatoes 8818

Ammonium

composition, tomatoes 5124

metabolism, disorders, grapes 4918

plant nutrition

Brassica campestris 3110
broccoli 2182
carrots 6954
Dactylorhiza incarnata 2442
lettuces 364
Lilium japonicum 10648
spinach 3110
Vaccinium ashei 2051

responses

Asparagus 457
grapes 3957
Lavandula angustifolia 9829
melons 1815
mushrooms 6064
tea 2766

toxicity

Dactylorhiza incarnata 2442
grapes 278
onions 2133-2134

uptake

lettuces 364
Vaccinium corymbosum 3927

Ammopiptanthus mongolicus, leaves, cytology 10775

Amomum cardamomum (see *Elettaria cardamomum*)

Amomum maximum, seeds, anatomy 1661

Amomum villosum

seeds

composition 2538
histology 2538

Amorphophallus rivieri

inflorescences, anatomy 8716

pollen, morphology 8716

Ampelomyces quisqualis, control, of

Uncinula necator, grapes 281, 1243

Ampelopsis

cultivars, identification 1220

species, identification 1220

Amphimallon majalis, lawns and turf 2427

Amrasca biguttula

okras 5071, 7765

peas 3214

Amrasca biguttula biguttula

aubergines 2287

okras 6890-6891, 6895, 7768

Amyeloidis transitella, almonds 3754

Anabaena doliolum, seed inoculation, okras 2267

Anacamptis pyramidalis

geographical distribution 696

nutrients, requirements, analysis 9756

Anacardium (see also *Cashews*)

Anaerobiosis, *Mesembryanthemum crystallinum* 3454

Anagallis arvensis

as weeds

cabbages 9475
Pimpinella anisum 1675

Anagrus atomus, control, of *Hauptidia maroccana*, tomatoes 4231

Anagrus epos, control, of *Erythroneura elegantula*, grapes 8476

Ananas (see also Pineapples)
Anarsia lineatella
 almonds 3754
 peaches 1150, 2964, 3864, 3868
Anastatica hierochuntica, *in vitro* culture, callus, growth 1679
Anastatus, control, of *Tessaratoma papillosa*, *Litchi* 7234
Anastrepha ludens, grapefruits 4528
Andrographis alata
 nutrients, uptake, assessment 5332
 propagation, techniques 7157
Andrographis lineata, nutrients, uptake, assessment 5332
Andrographis paniculata
 nutrients, uptake, assessment 5332
 plant, development, assessment 9847
 seeds, germination, tests 9847
Andromeda japonica (see *Pieris japonica*)
Anemia phyllitidis
 plant growth regulators, gibberellins, composition 7917
 spores, germination, biochemistry 4362
Anemone blanda
 planting stock, overwintering 6121
 pot plants, production, cultural methods 6121
Anethum graveolens
 fertilizers, nitrogen 8004, 9826
 manures 3520
 production possibilities, Netherlands 8701
 salinity, responses 10747
 seeds
 composition 3521
 germination
 salinity 10747
 tests 2519
 size, assessment 2519
 weed control 1671
Angelica archangelica
 harvesting, harvesting date, assessment 8021
 planting, planting date 8021
 protected cultivation
 growing media 1672
 light 1672
Angelica dahurica, *in vitro* culture, cell suspensions 6274
Anicetus beneficus, control, of *Ceroastes rubens*, *Citrus* 3598
Anigozanthos, cultivars, characteristics, Australia 9642
Anisum vulgare (see *Pimpinella anisum*)
Annona (see also Atemoyas; Cherimoyas)
 storage, treatment 6524
Annona coriacea
 fruits, composition 8110
 seeds, composition 8110
Annona glabra, production, Vietnam 2667
Annona muricata
 cultivars
 assessment, Venezuela 7262
 clones 7262
 grafting, techniques, assessment 10907
in vitro culture, propagation, micropropagation 7263
 production, Vietnam 2667
Annona reticulata, production, Vietnam 2667
Annona squamosa
 cultivars, identification 2669
 fruits, set, pollination 1775
 irrigation, water, salinity 6372
 mulching, responses 2670
 production, Vietnam 2667
 salinity, responses 6372
 Annual reports (see Reports)
Anomala schonfeldti, lawns and turf 4352
 Anoxia
Acorus calamus 9710
 beetroots 5836
 peas 7760
 tomatoes 2312
Anthemis arvensis, as weeds, *Oenothera biennis* 770
Anthocoris nemoralis
 control
 of *Acizzia uncatoides*
Acacia 729
Albizia 729

Anthocyanins
 biochemistry
Ajuga reptans 7002
Alcea rosea 8894
Consolida armeniaca 6110
Eustoma grandiflorum 8773
 grapes 10347
Matthiola incana 6115
Pharbitis nil 6101
Ranunculus asiaticus 8796
 biosynthesis, grapes 1239
 characterization
Ajuga pyramidalis 9823
Cattleya walkeriana 4381
Eichhornia crassipes 4300
Evolvulus pilosus 4300
Gentiana 1551
 hyacinths 639, 6127
Laelia pumila 4381
Laeliocattleya 4381
Pharbitis purpurea 1544
 radishes 9496
 strawberries 5739
Verbena hybrida 1558
 composition
Acer macrophyllum 10638
Aloe arborescens 10774
Aloe barbadensis 10774
Aloe saponaria 10774
Alstroemeria 7024
Aronia melanocarpa 2070
Begonia 629
Begonia cucullata 10638
 blackberries 6656
Bletilla striata 1597
Cornus mas 6253
 grapes 2100, 3029, 3996, 10351
 hyacinths 638, 7893
 lettuces 7693
Meconopsis 7878
Myrica rubra 7259
Phaseolus 8600
 pomegranates 2661
 strawberries 5739, 6679
Vaccinium corymbosum 8421
Vigna 8600
 determination
 grapes 2105
 oranges 2626
 extraction, grapes 310
 metabolism
 biochemistry, apples 1112
 cultivars
Dendrobium 3460
 grapes 9410
Vaccinium angustifolium 3924
 cultural methods, grapes 6721
 development, mangoes 4629
 disorders, apples 8314
 handling, *Asparagus* 461
in vitro culture
 grapes 297-298
 strawberries 3018
Vaccinium macrocarpon 3930
Vitis 3064
 light, *Dendrobium* 3460
 maturity, *Vaccinium angustifolium* 3924
 plant growth regulators
 apples 1115
Hibiscus sabdariffa 6297
 plant nutrition, Brassicaceae 7703
 ripening
 apples 9202
 blackberries 4877
 grapes 304
Litchi 9902
 storage
 apples 8314
Asparagus 459
 blackberries 4876-4877
Litchi 1756
Prunus pseudocerasus 164
 sugars, apples 1115
 temperature, *Dendrobium* 3460
 production
in vitro culture
Perilla frutescens 9825
 radishes 8561
 taxonomy, *Vitis* 5743
Anthonomus piri, pears 1964, 2012

Anthonomus pomorum, apples 1959, 1964
Anthriscus caucalis, taxonomy, nomenclature 2516
Anthriscus cerefolium, taxonomy, nomenclature 2516
Anthriscus sylvestris, taxonomy, nomenclature 2516
Anthurium
 growing media, composition 687
 pot plants, cultivars 5180
 research, Taiwan 8203
Anthurium andraeanum
 cut flowers, production, cultural methods 3404
 flowers, development, anatomy 7870
in vitro culture
 organogenesis 1548, 8762
 propagation, micropropagation 6107
 somatic embryogenesis 7871
 ultrastructure 7871
 seeds, development, anatomy 7870
Anthurium scherzerianum
 growing media, composition 5234
in vitro culture
 organogenesis 1548
 propagation, micropropagation 6107
 pot plants, storage 10607
Anthurium warocqueanum, cultural methods, UK 676
Antioxidants
 composition
 apples 8319
 coffee 6408
 fruit crops 2815
 pears 8319
Rubus 9348
 tamarinds 11027
 metabolism
 diurnal variation, *Phaseolus vulgaris* 2238
 light, grapes 3063
 ozone
 spinach 2144
Vicia faba 2144
 pollution, cucumbers 9505
 ripening, *Capsicum* 10531
 storage, apples 151
 responses
 apples 145, 3804
Phaseolus vulgaris 1377-1379, 3196
 tomatoes 5127
 treatment, avocados 3579
 uptake, *Phaseolus vulgaris* 2225
Antirrhinum
 cultivars, assessment, USA 6991
 cut flowers
 preservatives 6087
 production, USA 1529
 responses, plant growth regulators 7859
 disease control, *Phytophthora nicotianae* var. *parasitica* 6990
 geotropism 6086
in vitro culture
 organogenesis 6992
 propagation, micropropagation 4280
 regeneration 6992
 shoots, physiology 6086
Antiteuchus tripteris, Macadamia 10880
Aonidia lauri, *Laurus nobilis* 736
Aonidiella aurantii
Citrus 3599, 5386, 8950
 oranges 2606
Aonidiella citrina
 clementines 1734
 oranges 1734
Apera spica-venti, as weeds, *Oenothera biennis* 770
Aphandra natalia
 products, fibres 7151
 wild plants, edible species 7151
Aphanomyces euteiches, peas 7758
Aphelandra squarrosa, plant, composition 4409
Aphelenchoides besseyi, *Polianthes tuberosa* 4337
Aphelenchoides composticola, mushrooms 1501

Aphelinus abdominalis

- control
 - of *Macrosiphum euphorbiae* roses 7963
 - tomatoes 2308

Aphididae

- Capsicum* 10529
- cucumbers 2307, 7737
- lettuces 1315, 3079
- melons 3668
- plums 8384
- red currants 8384
- Spiraea vanhouttei* 8384
- strawberries 1211
- tea 962
- tomatoes 2299, 2307
- vegetables 5777

Aphidius colemani

- control
 - of *Aphis gossypii* cucumbers 407
 - melons 2708

Aphidius matricariae

- control
 - of Aphididae, lettuce 1315
 - of *Aphis gossypii*, cucumbers 407-408

Aphidius sonchi, control, of *Hyperomyzus*

- lactucae*, black currants 9342

Aphidoidea, bedding plants 7860**Aphidoletes aphidimyza**

- control
 - of Aphididae, lettuce 1315
 - of *Aphis gossypii* cucumbers 408
 - melons 2708

Aphis craccivora

- Trigonella corniculata* 7996
- Trigonella foenum-graecum* 7996

Aphis gossypii

- Alpinia purpurata* 653
- aubergines 2287, 4200, 9571
- Capsicum* 7649
- chrysanthemums 10620
- cucumbers 407-408, 6825, 7649
- Cucurbita pepo* 1364
- Cucurbitaceae 3180
- Hibiscus mutabilis* 1647
- melons 911, 2708, 3670, 9958
- okras 4946
- tomatoes 7649

Aphis nasturtii

- Capsicum* 7649
- cucumbers 7649
- tomatoes 7649

Aphis pomi, fruit crops 7479**Aphis spiraeicola**, apples 2891, 6569**Aphytis melinus**, control, of *Aonidiella aurantii*, *Citrus* 5386, 8950**Apidae**

- pollination, apples 129
- pollinators
 - apples 2910, 8237, 9198
 - apricots 8326, 9254, 9258
 - avocados 55, 804-805
 - Capsicum* 8634
 - cashews 9016
 - cherries 8237
 - Cucurbita pepo* 5921
 - Disa tenuifolia* 4380
 - kiwifruits 2997
 - Litchi* 55, 1753, 4543
 - mangoes 55, 7333, 10963-10964
 - melons 5487, 6413
 - plums 8237
 - Prosopis velutina* 2512
 - Rhododendron* 3491
 - strawberries 255
 - temperate fruits 8236

Apios americana

- plant, development, phenology 6874
- shoots, composition 455

Apiosporina morbosa, plums 2982**Apium** (see also *Celeriac*; *Celery*)**Apium nodiflorum**

- plant, composition 4004
- wild plants, edible species 4004

Apomyelois ceratoniae, pomegranates 2660**Aponogeton distachyos**, nutritive value 2331**Apple stem pitting virus**, pears 6629**Apples**

- altitude, responses 3777

Apples cont.

- bark, biochemistry, seasonal variation 6521
- budding
 - height 7455, 8247
 - unions, histology 77
- buds
 - biochemistry, seasonal variation 124
 - development, rootstock scion relationships 4747
 - dormancy
 - cultivars 10129
 - cultural methods 6558
 - models 4783
 - chilling requirement 4783
 - climate, microclimate 5600
 - conferences 16, 4667, 7395
 - cooling, techniques 7498
 - cover crops
 - cultural methods 9185, 10113
 - responses 1076, 2869, 2879, 3778, 4764
 - cropping systems, intercropping 3779
 - cultivars
 - assessment
 - Belarus 3740
 - Belgium 5592
 - Brazil 7405
 - Cameroon 10095
 - Canada 9169, 9173
 - China 1927, 2854
 - Egypt 3831
 - Italy 83, 7452
 - Netherlands 76, 4731, 4735, 10093, 10096
 - Nigeria 10095
 - Poland 7453
 - Romania 3763, 10095
 - Switzerland 2855, 4729, 8243
 - browning 10163
 - characteristics
 - Australia 5594-5596
 - books 989
 - China 1063, 3764, 8245, 9170-9171, 9174-9175, 10097
 - Estonia 6539
 - France 2857, 7454, 8244
 - Italy 2858
 - Japan 1930
 - Korea Republic 3765, 6540
 - Netherlands 4734, 6536
 - New Zealand 2858, 5595, 9172
 - Russia 1065, 4728, 4736
 - USA 1064, 2856, 5598, 10094
 - chilling requirement 10129
 - consumer preferences 5597, 7512
 - disease resistance 1062, 3762, 3805, 4728, 4774, 6536, 7440
 - disorders 1123
 - flowering date 10094
 - fruiting 1931
 - habit 1063, 2854
 - harvesting date 1116, 4733
 - history 1929
 - Estonia 6539
 - identification 1974, 7451, 8242, 8317
 - mutants 4731, 10093, 10096, 10129
 - mycorrhizas 10119
 - organic culture 5593
 - ornamental value 1652
 - pest resistance 1892
 - physiology 6574, 10130
 - pollination 130, 4785, 10136
 - storage 1977, 4732, 6537, 10097
 - cultural methods
 - China 10112
 - economics 1926, 1947, 5591
 - Ecuador 8241
 - India 9168
 - Italy 4724
 - Japan 75, 5602, 6544
 - low input agriculture 10111
 - mechanization 1926, 1947
 - Switzerland 4711
 - USA 2853
 - cuttings
 - production, techniques 8252
 - rooting, *in vitro* culture 89
 - treatment 6548
 - cytology 10145
 - defoliation, responses 5603, 7494, 10137

Apples cont.

- dewpoint, models 5600
- disease control
 - Alternaria alternata* 10164
 - Australia 1089
 - Botrytis cinerea* 1125, 6588, 10164
 - China 1084
 - Corticium rolfsii* 8255
 - Erwinia amylovora* 1086, 3786, 8292
 - fungi 3805
 - Hungary 1085
 - Leptodontium elatius* 5610
 - Monilinia fructigena* 10164
 - Monilinia laxa* 10164
 - Nectria galligena* 109
 - Peltaster fruticola* 5610
 - Penicillium expansum* 6588, 10164
 - Physalospora piricola* 5608
 - Phytophthora cactorum* 4722, 6563, 10123
 - Podosphaera leucotricha* 1073, 2892, 7447, 7480, 7483, 8291, 8293
 - Pseudomonas* 109
 - Rhizopus stolonifer* 10164
 - Rosellinia necatrix* 5611
 - Switzerland 3748, 3751
 - USA 9191
 - Venturia inaequalis* 110-113, 1073, 1087-1088, 2893, 3787-3788, 5609, 7447, 7480-7483, 8287-8291, 8293, 10124
 - Zygophiala jamaicensis* 5610
- disorders
 - bitter pit 105, 1073, 1122-1123, 2919, 2921, 4790, 4801, 7478, 7509, 8284, 8316, 8365, 9222
 - reviews 6587
 - blackheart 4744
 - breakdown 1122-1124, 7505-7506, 9222, 10155
 - brown core 9222
 - chlorosis 108
 - core flush 10156
 - flesh browning 10156
 - Jonathan spot 1122-1123
 - lenticel blotch pit 4790, 9222
 - scald 145-146, 149-151, 1978-1980, 3802, 3804, 4800-4801, 5627, 5629, 5677, 7506-7508, 7510, 8314-8315, 9208, 10146, 10162
 - water core 4743, 7505, 9208, 9214
- drying, techniques 10151
- economics
 - Chile 4675
 - Croatia 7462
 - Slovenia 10115
 - USA 4675, 4715
- establishment, meadows 5584
- fertilizers 3787, 6187
 - boron 1082-1083, 2890, 7478
 - calcium 2874, 7478, 8365
 - magnesium 2884, 7478
 - manganese 1082, 10122
 - nitrogen 97, 105, 107, 1090, 1123, 1954-1956, 2843, 2876-2881, 2884, 6562, 7475, 7477, 8280-8283, 8307, 8365, 10121
 - phosphorus 97, 1090, 1954-1956, 2843, 2874, 7478, 8280
 - potassium 1090, 1122, 1954-1955, 2843, 2884-2886, 4772, 7477, 8280
 - zinc 1082, 2887, 7478
- flowers
 - development
 - assessment 4741, 5620
 - climate 10135
 - physiology 9165
 - initiation
 - cultural methods 4784
 - physiology 86, 1106, 2909
 - plant growth regulators 1104, 1106
 - temperature 10142
 - morphology 9198
 - thinning
 - plant growth regulators 127-128, 1107-1108, 7490, 10131
 - responses 1068, 8304
- frost
 - injuries 5284, 10085

Apples cont.**frost cont.**

- protection, vitamins 1073
- resistance
 - assessment 5617
 - cultivars 3764, 8261
 - models 5601

fruits

- abscission, physiology 5577
- anatomy 1118, 1974
- aroma
 - biochemistry 9224
 - harvesting date 1983, 10152
 - maturity 10152
- biochemistry 135, 152, 178, 1113, 6581, 8242, 8305, 10144
- soil management 4764
- water stress 5605
- browning
 - biochemistry 8228
 - cultivars 10163
- bruising
 - assessment 153, 1986, 7513, 10169
 - harvesting 6584
 - harvesting date 9227
 - maturity 9227
 - storage 8313
 - temperature 8313
- colour
 - assessment 6589
 - cultivars 9169
 - cultural methods 1115
 - fertilizers 10122
 - plant growth regulators 132, 1115, 9204
 - sorting 7511
- composition 149, 1980, 2914, 5633, 6579, 6582-6583, 6591, 7494, 8280, 8283, 8306, 8319, 10069

cracking

- assessment 4791
- histology 10145

development

- assessment 8238
- biochemistry 1112, 4792, 5618, 5622, 8318, 9221
- cultivars 1931
- irrigation 1077
- models 10143
- plant growth regulators 7472
- plant nutrition 2875
- temperature 10142
- water stress 5605

drop

- biochemistry 4786
- physiology 2912
- plant growth regulators 131-132, 10138
- pollination 3797

flavour

- assessment 2923
- harvesting date 10152
- maturity 10152
- storage 4797, 9216

histology 5633**injuries**

- pollution 3776
- transport 10165

maturity

- assessment 6585, 9158, 9205, 9211
- cultivars 9205
- cultural methods 5677

mechanical properties

- cultivars 6592-6593
- diurnal variation 9226
- measurement 6590, 6592, 7514, 9226
- models 10148
- storage 4797, 4799, 6592-6593, 10148, 10155

physiology 1111, 3793, 9212**quality**

- assessment 1981, 1984, 2923, 7473, 7514, 9225, 10167, 10169
- climate 4760
- colour 4804
- cultivars 1984, 8310

Apples cont.**fruits cont.****quality cont.**

- cultural methods 1115, 8301, 10117
- fertilizers 1954, 10120, 10166
- harvesting date 7497
- irrigation 6552, 7497, 10114
- measurement 8320, 9157
- physiology 1985
- plant growth regulators 1115
- plant nutrition 2875, 2922
- plant training 2871, 4770
- pollination 9199, 10135
- position 9203
- pruning 98
- ripening 9220
- rootstock scion relationships 4743, 4752, 4805
- size 4804
- storage 8310, 9220, 10157

ripening

- biochemistry 139, 142-143, 4788, 4792, 7501, 9201-9202
- cultivars 9202
- harvesting date 10152
- maturity 10152
- mulching 1951
- physiology 133-134, 4707, 5577
- plant growth regulators 132, 2836
- rootstock scion relationships 4743
- storage 10154, 10158
- temperature 1114, 4782, 6580
- thinning 9201
- ultrastructure 133

russetting

- assessment 7495
- light 7515
- plant growth regulators 7493
- ultraviolet radiation 7515

set

- assessment 5620
- biochemistry 1973
- cultural methods 4784
- defoliation 10137
- fertilizers 1954, 6578, 10137
- models 129
- physiology 2911
- plant growth regulators 1104, 1953
- pollination 3796, 9199, 9309
- temperature 9309

shape

- light 7515
- ultraviolet radiation 7515

size

- assessment 2924
- fertilizers 8307
- measurement 2915
- models 3807
- plant growth regulators 7429, 8307
- rootstock scion relationships 4738, 9180, 10100

thinning

- books 7384
- cultural methods 9200
- plant growth regulators 128, 1104, 1108, 3798, 4787, 5621, 8277, 10131-10133, 10139-10140
- responses 1110, 2913, 7491, 9201, 10140
- techniques 10134, 10141

fungicides

- residues 888, 5616, 6570
- responses 2893
- surfactants 2906

grading, techniques 5631-5632, 8230**grafting**

- budwood, sources 1086
- techniques
 - bench grafts 8246, 8248
 - cuttings 8248

green manures 2894, 10110**growth retardation, plant growth regulators 1080, 6577, 8276****hail**

- injuries 4717
- protection 3775

Apples cont.**harvesting**

- equipment 1975, 5624, 8308
- harvesting date
 - assessment 4733, 4794, 4801, 6584, 9207-9211, 9213-9214, 9222, 10146, 10167
 - conferences 9122
 - cultivars 1977, 1983, 9208
 - forecasting 1116, 9206, 9212
- techniques
 - assessment 10147
 - mechanical harvesting 2916, 4795-4796

high density planting

- economics 92
- plant training 4748, 4768, 5602
- pruning 7464
- rootstocks 4748, 7464, 8251
- spacing 93
- systems 1947, 3774

humidity, responses 4761**hypoxia 4781****in vitro culture**

- anthers 1942
- biochemistry 5619
- callus, growth 126, 10089
- cell suspensions 5619
- culture media 87-90, 647, 5558, 8260
- disorders, browning 3769, 4757
- organogenesis 88, 1071, 3770-3771, 6546-6548

propagation

- micropropagation 1942, 2811, 8259
- responses 2865
- techniques 8258
- protoplasts 1070
- somatic embryogenesis 3771
- storage 1943, 3772
- ultrastructure 121

insecticides, surfactants 2906

- interstocks 1067, 1069, 1941, 3744, 4730, 4754, 8251, 8256-8257, 10102

irregular bearing

- plant growth regulators 1110
- plant nutrition 2913
- thinning 1110, 8304

irrigation

- economics 1078
- fertigation 1078, 1956, 2885
- frequency 1956
- requirements, determination 1077, 5562
- responses 226, 6552-6553, 8270, 9186
- systems 1950, 5606, 6554, 7468, 9186

layering, sources, assessment 8253**leaves**

- areas
 - assessment 2808, 10109
 - models 4777
- biochemistry 125, 1971
- plant nutrition 1957
- seasonal variation 2908
- soil management 4764
- composition 108, 8302
- development
 - assessment 7488, 10126
 - biochemistry 5618
 - fertilizers 10121
- physiology 95, 122, 2907, 6575, 8276
- senescence 3795

manures 2874, 2894, 10112**marketing**

- Switzerland 4714
- UK 4803

mulching

- materials 1074, 1076, 1945, 1951, 7467, 8264, 8271
- responses 2870, 6555, 7467, 8267, 10110

mutants, yields 4730**mycorrhizas 5607, 10119****nutrients**

- requirements
 - analysis 8279
 - assessment 2873, 3783
- uptake, irrigation 6553

Apples cont.

- organic culture 4714, 4774, 5593
- pest control
 - Acari 114, 2892, 7484
 - Aculus* 2891
 - Aculus schlechtendali* 1096
 - Adoxophyes orana* 2905, 3784, 7486
 - Agrilus mali* 1098
 - Anthonomus pomorum* 1959, 1964
 - Aphis spiraeicola* 2891, 6569
 - Archips podanus* 2905
 - Archips rosanus* 2905
 - arthropods 3785
 - Auchenorrhyncha 8297
 - Australia 8286
 - books 2783
 - Brevipalpus chilensis* 2846
 - Carposina sasakii* 120, 2891
 - Choristoneura rosaceana* 8300
 - Ctenopseustis obliquana* 9195
 - Cydia lobarzewskii* 8295
 - Cydia pomonella* 1092, 1097, 1967, 2897, 2900-2901, 2904-2905, 3784, 3790, 4776, 5613-5615, 7480, 7486, 8296-8298, 9195, 9197, 10125
 - Cydia prunivora* 8297
 - Dasineura* 2904
 - Diaspididae 3790
 - Dysaphis* 6621
 - Dysaphis plantaginea* 1963, 1966, 6565
 - Edwardiana rosae* 2896
 - Epiphyas postvittana* 3792, 9195
 - Eriosoma lanigerum* 2904, 5613
 - Forficula auricularia* 2904
 - France 8299
 - Holotrichia longipennis* 1962
 - Hoplocampa testudinea* 1095, 2904
 - insects 1091
 - Israel 2898
 - Korea Republic 2891
 - Lepidoptera 1961, 3790, 8297
 - Melolontha melolontha* 6566, 9196
 - Metcalfa pruinosa* 1045, 1094
 - Nematoda 3789
 - Ovatus malisuctus* 2891
 - Pandemis heparana* 2905, 3784
 - Panonychus ulmi* 115-116, 1090, 1096, 2891, 2895, 4776, 5613, 7480, 7486, 9192-9193
 - Phlyctinus callosus* 1093, 2902, 7487
 - Phyllonorycter blancardella* 2904
 - Phyllonorycter ringoniella* 119, 2891
 - Planotortrix octo* 9194-9195
 - Pratylenchus jordanensis* 2894
 - Pseudococcus maritimus* 7536
 - Quadraspidiotus ostreaeformis* 1965
 - Quadraspidiotus perniciosus* 116, 7485
 - Quadraspidiotus pyri* 1965
 - Rhagoletis pomonella* 118, 8297
 - Rhopalosiphum insertum* 117
 - Switzerland 3748
 - Synanthedon myopaeformis* 1958, 1960
 - Tapinoma nigerrimum* 2899
 - Tetranychidae 6564
 - Tetranychus urticae* 2891
 - Tetranychus viennensis* 115
 - Thysanoptera 2903
 - Tortricidae 3790
 - Typhlodromus pyri* 8294
 - USA 1921, 9191
 - voles 1968, 6567
 - Yponomeuta malinellus* 3791
- pesticides
 - application methods 3735
 - residues 6571-6572, 7421
- pests, surveys, Portugal 5612
- photosynthesis
 - cultural methods 8301
 - light 4779
 - physiology 3793
 - rootstock scion relationships 1101
 - temperature 1101
 - water stress 1102
- plant
 - anatomy 1969
 - canopy
 - light 4777, 7465

Apples cont.

- plant cont.
 - canopy cont.
 - measurement 4778
 - temperature 9184
 - composition 4807, 8219, 8303
 - development
 - light 91
 - physiology 1970, 3706
 - rootstock scion relationships 4740
 - water stress 5605
 - height, light 4763
 - morphology 3758, 8274
 - physiology 102, 1969
- plant growth regulators
 - abscisic acid, composition 10130
 - benzyladenine, responses 3782, 7469, 8275, 9182, 10103
 - carbaryl, application date 4787
 - daminozide, determination 1982
 - ethylene, metabolism 8305
 - forchlorfenuron, application date 7506
 - gibberellic acid, responses 3782, 8275, 10103
 - gibberellins
 - composition 7496
 - responses 3799, 4789
 - IAA
 - composition 9179, 10130
 - physiology 2911
 - 2-KhEFK, responses 8212
 - NAA, application date 4787
 - paclobutrazol
 - application date 4771
 - residues 6577
 - responses 3782
 - TIBA, responses 3782
- plant nutrition
 - boron 7445
 - calcium 1985, 2914, 4753, 4773, 10166
 - iron 108, 1081
 - magnesium 10166
 - manganese 4753
 - nitrogen 106, 2826, 2869, 2875, 2882-2883, 4753, 6560-6561, 7474, 7476, 10122, 10166-10167
 - phosphorus 1940, 4753, 10166-10167
 - potassium 4753, 8278, 10166-10167
 - strontium 1985
 - surveys, India 104
 - zinc 8285
- plant training
 - economics 4770, 6557
 - labour requirements 8273
 - pruning 5602
 - responses 100, 102, 1079, 4724, 4748-4750, 4768-4769, 5602-5603, 7461, 8273
 - systems 1069, 1952, 2871-2872, 2916, 3747, 4746, 4768, 4770, 6557, 7471, 8274, 9177, 9188-9189, 10108
- plant water relations
 - fruiting 1099
 - water stress 95
 - waterlogging 95
- planting
 - planting date 1948
 - site preparation 226, 4766
 - spacing 92, 1946, 2866, 3768, 3773-3774, 4724, 6543, 7462-7463, 7470, 9183, 10101, 10104-10106
 - systems 4762, 6550-6551, 9162, 10107-10108
 - computers 3757
- planting stock
 - production, cultural methods 1945, 8246, 8275, 9182
 - size 6549
 - types, assessment 4758-4759
- plastids, ultrastructure 121
- pollen
 - collection 3890
 - germination, calcium 1109
- pollination
 - compatibility 130
 - cultivars 4785, 9199

Apples cont.

- pollination cont.
 - pollinators
 - Apidae 129, 2910, 8236-8237, 9198
 - Episyrphus balteatus* 2910
 - Eristalis tenax* 2910
 - insects 10136
 - Orthellia* 2910
 - techniques 3796-3797
 - pollution
 - acid rain 3776, 5560
 - cadmium 2867
 - dusts 8262
 - heavy metals 8263
 - processing
 - cultivars 7454
 - quality, maturity 4806
 - production
 - Austria 3760
 - Brazil 6488
 - Croatia 10092
 - history 5590
 - Italy 3759, 8232
 - Japan 75
 - Korea Republic 2805
 - Poland 4725
 - Slovenia 10106
 - Switzerland 4714
 - USA 4713, 4715, 4726-4727
 - production possibilities, Malaysia 9130
 - protected cultivation
 - humidity 103
 - irrigation 96
 - systems, plastic tunnels 9179
 - temperature 96
 - pruning
 - responses 102, 2914, 4724, 4748-4750, 8272, 9189
 - systems
 - assessment 99, 1079, 3758, 3780-3781, 7470, 9187-9188
 - root pruning 98, 6556, 7469, 7472, 10117
 - regeneration
 - cultivars 8265
 - plant growth regulators 8265
 - plant nutrition 8265
 - pruning 8265
 - replanting 8266
 - replanting
 - cultural methods 97, 4766
 - pests 3789
 - reports, Belgium 1888, 9127
 - reproduction, physiology 9166
 - research, Belgium 1889
 - respiration
 - carbon dioxide 84, 3736
 - models 7503
 - physiology 4707
 - storage 7503, 10074, 10153
 - waterlogging 4781
 - ringing, responses 1080, 5603
 - roots
 - development
 - assessment 68
 - in vitro* culture 6547
 - plant growth regulators 123, 1100, 6547
 - physiology 84, 95, 122, 5617
 - ultrastructure 1100
 - rootstock scion relationships
 - compatibility 4739
 - disorders 4744
 - fertilizers 2878
 - flowering 78, 86, 1939-1940
 - fruiting 78, 4743
 - growth 78, 80-81, 83, 93, 1067, 1069, 1932-1934, 1944, 2860-2862, 3758, 3767, 4738-4742, 4747, 4753, 4755, 6541-6545, 7453, 7456, 7458, 7460, 8249, 8251, 8257, 9180, 10100-10101
 - models 4745
 - plant nutrition 106, 1940, 2864, 4753, 6562
 - precocity 85
 - quality 82, 85, 2919, 4752, 4805
 - snow 8254
 - water stress 94
 - waterlogging 94

Apples cont.

- rootstock scion relationships *cont.*
 - yields 80-81, 83, 85, 93, 1067-1069, 1932-1935, 2859-2860, 2862-2863, 2878, 3767-3768, 4738-4739, 4742, 4746, 4748-4751, 6541-6543, 6545, 7453, 7455-7456, 7458-7461, 7468, 8247, 8249-8251, 8256-8257, 9177-9178, 9180, 10100, 10108
- rootstocks
 - assessment
 - France 4769, 7456-7457
 - Ukraine 1936
 - USA 4751
 - characteristics
 - Italy 4756
 - Poland 4754
 - USA 1937-1938
 - disease control 8255
 - dwarfing 80-81
 - mycorrhizas 5599
 - physiology 84, 6574
 - propagation
 - cuttings 1066, 4862, 8248
 - grafting 8248
 - in vitro* culture 1071, 3769, 4757, 8258-8259, 9181, 10098
 - stooling 10099
 - techniques 8252-8253
 - research
 - Europe 79
 - North America 79
 - weed control 3766
- salinity
 - responses 106, 6562, 8278
 - tolerance 6560
- scoring, responses 10116
- seeds
 - composition 5633, 7496
 - cytology 4786
 - development
 - apomixis 5623
 - biochemistry 7492
 - pollination 4790
 - germination, biochemistry 9176
 - set, pollination 3800
 - treatment 4737
- shading, responses 8315
- shoots
 - composition 9179
 - development
 - cultural methods 5603, 6558
 - humidity 4761
 - plant growth regulators 1072, 1953, 5603, 9190, 10118
 - soil temperature 4761
 - temperature 6576, 10128
 - orientation 7489
 - physiology 122
 - vascular system 6573
- snow, injuries 8254
- soil amendments 2888
- soil fumigation 97, 1079
- soil management
 - responses 2876
 - systems 2869, 2879-2880, 3778, 4764, 4767, 6555, 7466-7467, 8264, 8267, 10110, 10113
- soil pH, responses 2867
- soil solarization 2894
- soil temperature, responses 103, 4761
- soil types 3783
- soil water, responses 2907
- sorting, techniques 3806, 6589, 7511
- storage
 - biochemistry 131, 139, 142-143, 148, 1119, 7508, 8314, 9218
 - disease control 1125, 6588, 7510, 10164
 - diseases 2920, 3805
 - disorders 145-146, 149-151, 1120-1124, 1978-1980, 2921, 3802, 3804, 4790, 4800, 5627, 6587, 7478, 7505, 7507-7510, 8314-8316, 9222, 10122, 10155, 10160-10162
 - humidity 10156
 - models 10148
 - packing 8309

Apples cont.

- storage *cont.*
 - physiology 1118, 1977, 7502-7503, 8312, 10074, 10079, 10153
- quality
 - assessment 136, 4793, 10166
 - biochemistry 4732
 - climate 146
 - cultivars 2856, 3805, 4729, 4733, 6537
 - cultural methods 8315, 10158, 10160-10161
 - fertilizers 1955, 10122
 - harvesting date 138, 1120, 1977, 4733, 7497, 9206, 9209-9210, 9213, 9215, 10154
 - irrigation 10114
 - light 8314
 - maturity 2917, 7505, 8314, 10154
 - plant growth regulators 101, 1104
 - plant nutrition 2922, 4799, 4801
 - reviews 4798
 - position 9203, 10161
 - rootstock scion relationships 82, 2919, 8311
 - spacing 146
- scrubbers, ethylene 7502, 10150
- systems
 - cold storage 147, 1117, 1119, 3802, 4793, 4802, 5626, 7497, 7500, 8321, 9219, 9221, 10154-10156
 - controlled atmosphere storage
 - 141, 1117, 1119, 1121, 1977, 2917, 3801, 4797, 5626, 6586, 6593, 7497, 7499, 7502-7504, 7507-7508, 8310, 8312, 9216-9217, 9219, 9222, 10079-10080, 10153-10156, 10162
 - hypoxia 8310, 9219
 - modified atmosphere storage 140, 1119, 10149
 - temperature 138, 3803, 8313
 - treatment 144-145, 147-148, 1126, 1978-1979, 2918, 3804, 4799-4800, 4802, 5625, 5628-5630, 7504, 7508, 9218, 9221, 10151, 10157, 10159
- wrappings 1976
- surveys
 - Madagascar 4676
 - Tajikistan 5583
- taxonomy, chemotaxonomy 3761
- topworking 2868, 4765
- translocation, source sink relations 1099, 3794
- transpiration
 - cultural methods 8301
 - determination 10127
 - light 4779
 - measurement 4780, 9184
 - physiology 6574
- transport, systems, assessment 10165
- water stress, responses 122, 1102, 2907, 5605, 6575
- waterlogging, responses 4781
- weed competition 5604
- weed control 1074-1076, 1949, 2869, 4767, 5604, 7467, 8268-8269, 10110
- winter hardiness
 - assessment 8261
 - cultivars 6538
 - fertilizers 8365
 - rootstock scion relationships 2859, 2863
- yields
 - forecasting 7460
 - pests 137

Apricots

- acaricides, residues 1987
- anthers, morphology 9256
- as rootstocks, plums 10251
- budding, unions, anatomy 10176
- buds
 - dormancy
 - cyanamide 9243
 - potassium nitrate 9242-9243
 - thiourea 9242
- fruiting potential 9261

Apricots cont.

- buds *cont.*
 - injuries, temperature 9235
- conferences 9120
- cultivars
 - anatomy 5587
 - characteristics
 - books 989
 - China 10171
 - France 8324
 - South Africa 9231
 - Tunisia 8324
 - Turkey 9229
 - USA 1127-1128
 - chilling requirement 9233
 - composition 2925, 8322, 9264
 - cultural methods 10171
 - drying 10170
 - frost resistance 9234
 - growth 9240
 - morphology 9249
 - nectar 9250
 - pest resistance 1892
 - pollen 3812
 - pollination 8323, 8326, 9254, 9259
 - processing 9160
 - quality 2925
 - cultural methods
 - reviews 9228
 - Romania 9230
 - Switzerland 4711
- disease control
 - bacteria 3750
 - Botryodiplodia theobromae* 157
 - Botryosphaeria dothidea* 157
 - Italy 9163
 - plum pox potyvirus 8351
 - Podosphaera tridactyla* 3810
 - Switzerland 3748, 3751
 - USA 7446, 9239
- diseases
 - books 995
 - surveys, Italy 205
- disorders
 - books 995
 - decline 9230
- drying
 - cultivars 10170
 - techniques 10182
- flowers
 - abnormal development 9246, 9252
 - anatomy 9251
 - biology 9245
 - composition 9247
 - development
 - assessment 9261
 - cultivars 7516, 9247-9249
 - seasonal variation 3811
 - temperature 9246
 - drop, physiology 9255
 - initiation, plant growth regulators 9236
 - injuries, temperature 9235
 - thinning, plant growth regulators 9253
 - vascular system 9247
- frost
 - resistance
 - biochemistry 9241
 - cultivars 2926, 8261, 9234-9235
 - seasonal variation 9241
- fruits
 - anatomy 5587
 - aroma
 - biochemistry 10186
 - storage 7524
 - biochemistry 2849
 - seasonal variation 10181
 - browning, storage 7524
 - bruising, measurement 9305
 - colour, cultivars 10187
 - cracking, cultivars 9263
 - development
 - assessment 1988, 9261
 - models 9262
 - drop, physiology 9255
 - flavour, storage 7524
 - maturity, assessment 4809, 10181
 - mechanical properties
 - plant growth regulators 9253
 - seasonal variation 10181

Apricots cont.

fruits cont.

mechanical properties cont.
storage 10184

quality

analysis 2929
cultivars 2925, 9264
cultural methods 9243
storage 160, 10183

ripening

biochemistry 10186
storage 7524

set

pollination 8326, 9258, 9260
temperature 8326

size, pruning 10180

thinning, plant growth regulators
7449, 8235

growth retardation, plant growth regula-
tors 3809, 9236

hail, injuries 4717

in vitro culture, propagation, micropropa-
gation 8325

interstocks 1130, 10178

irrigation, systems 156

leaves, composition 8322

nectar 9250, 9257

nectaries 9249

nutrients, surveys, Turkey 9238

pest control

Forficula auricularia 3753

Scolytus seulensis 6595

Switzerland 3748

USA 1921, 7446, 9239

pesticides, residues 7421

plant

biochemistry 70
canopy, harvesting 6596
composition 9244

plant growth regulators, dichlorprop,
responses 4705

plant nutrition, surveys, Turkey 9237

plant training, systems 3747, 6594

pollen

development, cultivars 9256
germination, cultivars 9259
viability, cultivars 9259

pollination

biology 9257
compatibility 8323, 8326, 9258, 9260
pollinators, Apidae 8236, 9254

processing, quality, cultivars 9160

production

South Africa 9231
Turkey 9229, 9232

products, oils 5635

pruning, seasons 10180

regeneration, topworking 10179

rootstock scion relationships

compatibility 10174, 10176
growth 1130, 10175, 10177
yields 1176, 10175, 10177

rootstocks

characteristics
France 1129
Italy 4808

propagation

seeds 10172
techniques 4808
reviews 10173

seedlings, development, seed treatment
10172

seeds

composition 9264
development, embryology 1131
dormancy, assessment 155
germination, assessment 155
treatment 10172

shoots

development, cultivars 9240
histology 10083

soil solarization 1033

storage

diseases 3813
packing 10185
quality, assessment 159
systems
controlled atmosphere storage
1989, 2928, 7524
modified atmosphere storage 160,
10185

Apricots cont.

storage cont.

temperature 10185
treatment 159, 10184
wrappings 10183
surveys, Tajikistan 5583
taxonomy, numerical taxonomy 5634
weed control 1033
wild plants, edible species 1917
winter hardiness, assessment 8261

Aptenia cordifolia, photosynthesis, CAM
pathway 10692

Aquilegia, herbicides, tolerance 6085

Arabis sturii

forcing 595

pot plants, production, cultural methods
595

Araceae, cultural methods, UK 593

Arachis pintoii

as cover crops

bananas 1783

coffee 7296

temperate fruits 5585

utilization, erosion control, bananas 1783

Arachniodes adiantiformis

fertilizers, nitrogen 8818

irrigation, requirements, determination
3448

Araecerus fasciculatus, coffee 901

Aralia continentalis, wild plants, edible spe-
cies 3069

Aralia cordata

in vitro culture, propagation, micropropa-
gation 1494

mulching, materials 1495

plant, development, plant growth regula-
tors 1495

seeds, germination, seed treatment 1495

Aranda, roots, physiology 5254

Arboreta

Australia 2456

Russia 5258

UK 2461, 3464

Arbutus

cultivars, characteristics, China 5695
fruits, development, plant growth regula-
tors 3906

Archangelica officinalis (see *Angelica*
archangelica)

Archips podanus

apples 2905

pears 2905

Archips rosanus

apples 2905

cherries 3815

peaches 1150

pears 2905

Archips xylosteanus, peaches 1150

Archivea kewensis, taxonomy, new taxa
9757

Arctium lappa

cultural methods, Italy 355

leaves, biochemistry 9468

seeds, composition 1265

Arctostaphylos uva-ursi

breeding, selection 3502

fruits, set, assessment 8022

Areca

as shade plants, cocoa 6391

cropping systems, intercropping 6389

intercropping, cocoa 6389

plant competition, cocoa 6389

Areca catechu

cropping systems, intercropping 6373

cultural methods, India 6373

drying

techniques 7265

temperature 7265

economics, India 6373

intercropping, coconuts 6373

reports, India 10057

Arecaceae, books 7391, 10035

Arecastrum romanzoffianum, leaves, com-
position 1857

Argentina

avocados, cultivars 6300

Capsicum, cultivars 5072

Citrus latifolia, production 5360

Cucurbita moschata, cultivars 5889

Cymbopogon citratus, economics 10758

greenhouse crops, economics 3723

Argentina cont.

Grindelia chilensis, wild plants, genetic
resources 10811

horticultural crops

production 6487

production possibilities 7403

onions, production 4032

Opuntia ficus-indica, production pos-
sibilities 8996

ornamental plants, production 1514

peaches, cultivars 5649

pot plants

economics

Cyclamen persicum 4294

Petunia 4294

subtropical fruits

climate 5357

production possibilities 5357

tomatoes

economics 4212

surveys 4219

tropical fruits

climate 5357

production possibilities 5357

Argyroteaenia ljugiana, grapes 9412

Arisaema candidissimum, geographical dis-
tribution 7903

Aristobia testudo, *Liichi* 2633

Aristolochia bracteata, *in vitro* culture, propa-
gation, micropropagation 4454

Armeria maritima

forcing 595

pot plants, production, cultural methods
595

taxonomy, numerical taxonomy 2390

Armilaria

avocados 8052

growing media, composition 10588

tea 8052

Armilaria mellea

fructification 10589

growing media, composition 6977, 10589

mycorrhizas, *Gastrodia elata* 6283

Armoracia rusticana

in vitro culture

explants, sources 3511

propagation

micropropagation 3511

techniques 6243

roots, *in vitro* culture 6243

Arnica amplexicaulis, taxonomy, chemotax-
onomy 5333

Arnica lanceolata, taxonomy, chemotaxo-
nomy 5333

Arnica montana, cultural methods, Germany
5334

Aronia arbutifolia, *in vitro* culture, propaga-
tion, responses 4410

Aronia melanocarpa

fruits, composition 2070

winter hardiness, physiology 9375

Arrojadoa bahiensis, cultural methods, UK
7919

Arrojadoa penicillata, cultural methods, UK
7919

Arsenic

composition

algae 8219

apples 8219

Citrus 8219

fruit crops 9152

Gerbera 8219

vegetables 9152

responses, *Phaseolus vulgaris* 5944

uptake, vegetables 5771

Artemisia

cultivars, identification 1637

leaves, analysis 1637

Artemisia abrotanum, leaves, analysis 1637

Artemisia absinthium, *in vitro* culture, orga-
nogenesis 9828

Artemisia annua

flowers, morphology 5335

harvesting, harvesting date, assessment
8023

in vitro culture, propagation, micropropa-
gation 9848

trichomes 5335

Artemisia arborescens, leaves, analysis 1637

Artemisia genipi, taxonomy, nomenclature
5329

- Artemisia pallens***
in vitro culture
culture media 752
organogenesis 752
- Artemisia pontica***, allelopathy 8211
- Arthrobacter***, control, of *Uromyces appendiculatus*, *Phaseolus vulgaris* 3199
- Arthrobotrys***
control
of Nematoda
mushrooms 524
tomatoes 524
- Arthrobotrys dactiloides***, control, of *Meloidogyne incognita*, tomatoes 523
- Arthrobotrys oligospora***, control, of *Meloidogyne incognita*, tomatoes 523
- Arthropodium cirrhatum***, ethnobotany 10517
- Arthropods**
aubergines 7420
Capsicum 7420
chrysanthemums 7420
poinsettias 7420
- Artocarpus*** (see also Breadfruits; Jackfruits)
- Artocarpus hypargyreaus***, seeds, composition 2672
- Arum italicum***, inflorescences, development, biochemistry 6132
- Arum maculatum***
inflorescences, development, physiology 1571
tubers, composition 655
- Aruncus dioicus***
mulching, responses 10584
shade, responses 10584
- Arundina bambusifolia***
in vitro culture
culture media 4371
propagation, micropropagation 4371
- Asclepias curassavica***
pollen
germination
boron 4455
calcium 4455
- Ascocenda***
books 4660
cultural methods, USA 8835
- Ascochyta cycadina***, *Cycas revoluta* 7967
- Ascorbic acid**
composition
Adansonia digitata 8171
Annona coriacea 8110
apples 8280
Asparagus 2264, 4184
aubergines 5082
Capsicum 3244, 9561
Ficus 10202
guavas 5493
kiwifruits 224
lettuces 4083
persimmons 4561
Rubus 9348
tomatoes 4253
wild plants 4004
determination
Asparagus 5068
strawberries 3950
metabolism
altitude
mandarins 10837
oranges 10837
biochemistry, tomatoes 2310
cultivars
spinach 8517
tomatoes 504
cultural methods
grapes 301
guavas 10946
lettuces 2174
spinach 8517
development
mangoes 7335
Ziziphus spina-christi 3693
fertilizers
lettuces 7689
pawpaws 7345
satsumas 10841
spinach 8518
tomatoes 6925
harvesting date, *Asparagus* 2264
- Ascorbic acid cont.**
metabolism cont.
maturity
Lagenaria siceraria 5036
pawpaws 1842
plant growth regulators
mangoes 9057
tomatoes 9587, 9610
potassium, *Capsicum* 9564
ripening
Capsicum 10531
Liichi 9902
tomatoes 537, 7826, 9612
rootstock scion relationships
mandarins 10831
oranges 3584
seasonal variation
lettuces 372, 8534
tomatoes 6921
senescence, broccoli 3152
shade
lettuces 363
tomatoes 537
soiless culture
Brassica campestris 3110
spinach 3110
storage
Asparagus 459, 2264
blackberries 4894
Citrus junos 10864
Cucurbita pepo 5925
guavas 10947
horticultural crops 3737
mangoes 7335
pears 194
strawberries 4894, 9373
tomatoes 4252, 9614
Vaccinium corymbosum 10286
temperature
bananas 1786
spinach 3107
responses, *Opuntia ficus-indica* 9921
uptake, lettuce 374
- Ash**, utilization, soil amendments, vegetables 7647
- Asia**
vegetables
pest control 2117
research 4006
- Asian pears** (see *Pyrus pyrifolia*)
- Asparagus***
cover crops, responses 2263, 9543
cultivars
assessment
France 6878
Italy 4179-4180
Netherlands 1403
characteristics, Italy 6879
forcing 5061, 5989
disease control
Fusarium 9545
Fusarium oxysporum 5065
Gibberella fujikuroi 5063, 5065, 9545
Phoma asparagi 8619
Puccinia asparagi 456, 5064, 8618
Stemphylium vesicarium 456, 5065
disorders
splitting 10514
tip rot 5988, 10515
fertilizers, phosphorus 10513
flowers
initiation
biochemistry 458
plant growth regulators 6881
forcing 4182, 5061, 5989
fungicides, injuries 8618
harvesting, equipment 3026, 6882
herbicides, injuries 9544
hybrids
assessment
France 6878
New Zealand 3223
characteristics, Italy 7762
disease resistance 3223
in vitro culture
biochemistry 457, 1407, 5067
callus, growth 457
histology 9547
organogenesis 4181
propagation
micropropagation 1404
- Asparagus* cont.**
in vitro culture cont.
propagation cont.
responses 10510
somatic embryogenesis 1404-1406, 10510
storage 1405
mycorrhizas 5062, 6119, 10512
nutrients, requirements, analysis 3226
packing, materials 10516
plant
histology 9547
sex, biochemistry 9546
plant nutrition, phosphorus 10512
planting, systems 4179
production
Greece 10509
USA 4934
products, beverages 462
protected cultivation, systems, plastic tunnels 9147
reports
Australia 8189
Belgium 1888, 9127
respiration, carbon dioxide 3736
roots, physiology 4183
seedlings
production
energy requirements 6498
labour requirements 6498
seeds
composition 1265
cytology 660
shoots, development, temperature 5066
soil sickness 3225, 10511
spears
biochemistry
maturity 6880
temperature 5988
colour, storage 6884
composition 462, 2264-2265, 4184, 5068
development, plant growth regulators 7764
quality
fertilizers 10513
handling 461
storage 459, 6883, 10516
temperature 3224, 10514
transport 461
storage
biochemistry 2264
disorders 5988, 10515
packing 221
systems
cold storage 6883-6884
modified atmosphere storage 6884, 10516
temperature 459
treatment 10515
surveys, Thailand 1402
taxonomy, morphology 6877
tillage, depth 5990
translocation, assessment 4183
transport, systems, assessment 460-461
weed control 2263, 5990, 9544
weeds, surveys, Spain 7763
- Asparagus densiflorus***
in vitro culture
culture media 8820
propagation, micropropagation 3449
- Asparagus lucidus***, wild plants, edible species 3069
- Aspergillus***, weed moulds, *Lentinula edodes* 8731
- Aspergillus nidulans***, control, of *Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 1452, 6018
- Aspergillus niger***
grapes 5759
onions 4032, 10374
- Aspidistra elatior***
cut foliage
quality
fertilizers 4363
shade 4363
shade, responses 5160
- Aspidogyne***, taxonomy, nomenclature 7056
- Aster amellus***
planting
planting date 9678

- Aster amellus** *cont.*
 planting *cont.*
 spacing 9678
- Aster, China** (see *Callistephus chinensis*)
- Aster novi-belgii**
 growth retardation, plant growth regulators 1549
 pot plants, production, cultural methods 1549
 taxonomy, revisions 6108
- Aster scaber**
 cultural methods, Korea Republic 2108
 shade, responses 2108
 wild plants, edible species 3069
- Asteraceae**
 fruits, development, anatomy 3727
 seeds
 development, anatomy 3727
 germination
 light 594
 seed treatment 594, 1530
 temperature 594
- Astilbe chinensis**, irrigation, systems 5281
- Astragalus membranaceus**, seeds, treatment 3537
- Astragalus mongholicus**, seeds, treatment 3537
- Astrophytum capricorne**, seeds, germination, seed treatment 1586
- Astrophytum myriostigma**, seeds, germination, seed treatment 1586
- Asymmetrasca decedens**, peaches 3864, 3873
- Ataenius**, lawns and turf 8811
- Atemoyas**
 cultivars, identification 2669
 fruits
 cracking, physiology 10909
 ripening, physiology 10909
 storage
 treatment 10909
 wrappings 10909
- Athelia bombacina**, control, of *Venturia inaequalis*, apples 3787
- Atriplex hortensis**, pollution, polychlorinated biphenyls 6729
- Atriplex patula**, as weeds, strawberries 2064
- Atropa belladonna**, planting, spacing 10776
- Aubergines**
 allelopathy 1266
 as rootstocks, tomatoes 8656
 chloroplasts, isolation 5486
 cold, responses 4017
 disease control
 Botrytis cinerea 8645
 Cercospora 4197
 Phomopsis vexans 10534
 Rhizoctonia solani 10528
 Verticillium dahliae 1423, 6002, 6906
 drought, responses 5089
 economics, Argentina 3723
 fertilizers
 nitrogen 8642, 8644, 9570
 phosphorus 8642
 potassium 8642, 9570
 sulfur 3250
 fruits
 composition 5082
 quality, assessment 7439
 grafting
 cultural methods 4935
 responses 1426
in vitro culture
 anthers 1466
 culture media 9420
 organogenesis 10360
 responses
 cadmium 10535
 cultivars 10533
 somatic embryogenesis 485, 10533
 insecticides
 adjuvants 1425
 residues 5869, 10536
 responses 9568
 irrigation
 requirements, determination 7783
 responses 3248
 water
 salinity 2285-2286
 sources 5773
 leaves, composition 9433
- Aubergines cont.**
 mechanically induced stress, responses 5089
 mulching
 materials 483, 9562
 responses 3249
 mycorrhizas 6002
 pest control
 Aphis gossypii 4200, 9571
 arthropods 7420
 Basirolaimus indicus 4198
 Bemisia argentifolii 5778
 Bemisia tabaci 1270, 1425
 Hemiptera 484
 insects 2287
 Leucinodes orbonalis 1426, 2117, 4201, 6003, 8640, 9568
 Liriomyza trifolii 1424
 Meloidogyne incognita 4198, 5083, 5776, 6035
 Meloidogyne javanica 1453, 3251, 4199
 Spain 2116
 Tetranychus kanzawai 7784
 Tetranychus urticae 7784
 Thrips palmi 484, 1271
 Trialeurodes vaporariorum 6933
 Tylenchorhynchus vulgaris 4198
 photosynthesis, temperature 5486
 plant, development, plant growth regulators 8642
 plant nutrition
 copper 5082
 zinc 5082
 plant water relations, irrigation 2285, 3248
 planting, spacing 8641, 8644
 pollution
 cadmium 10535
 radionuclides 2107
 production possibilities, USA 8491
 protected cultivation
 cultivars 9569
 systems, plastic tunnels 483
 reports, Belgium 1884
 research, Italy 468
 respiration, temperature 4017
 rootstock scion relationships
 growth 3247
 yields 8641
 salinity, responses 400
 seeds
 development, histology 7785
 treatment 3251, 8640, 9568, 10534
 soil amendments 9428
 soilless culture
 nutrient solutions, salinity 400
 plant nutrition 6905
 storage
 biochemistry 7786
 physiology 10079
 systems
 cold storage 7786
 controlled atmosphere storage 10079
 temperature 7786
 treatment 6743
 translocation
 rootstock scion relationships 3247
 source sink relations 3247
 transpiration, determination 6739
 yields, pests 4201, 6035
- Auchenorrhyncha**, apples 8297
- Aucuba japonica**, shoots, development, anatomy 7101
- Aulacophora foveicollis**
 melons 3670
Momordica charantia 6823
- Auricularia**, growing media, composition 3354
- Auricularia auricula**
 composition 8722
 nutritive value 1497
- Auricularia polytricha**
 composition 3355
 growing media, utilization 3355, 5148
 mycelium, growth 5148
- Australia**
 apples
 cultivars 5594-5596
 disease control 1089
- Australia cont.**
 apples *cont.*
 pest control 8286
 arboreta 2456
 bananas, cultivars 4575
Blandfordia, species 9711
 botanical gardens 2369
Brachycome, cultivars 9679
 cherries, cultivars 3816
Citrus
 books 1865
 cultural methods 2592
 economics 2587
Cucurbita, cultural methods 2196
Cucurbita pepo, cultural methods 2197
 Cucurbitaceae, economics 3160
 dates, production 2627
Dendrobium, pests, surveys 1607
 fruit crops, pest control 2829
 grapes, economics 6682
Lavandula, cultivars 7113
Lavandula pinnata × *Lavandula canariensis*, cultivars 6263
 lettuces, cultivars 4985
Litchi, production 2632
Macadamia
 cultivars 6352
 marketing 2638
 production 2638
 mangoes, production 2719
Myoporum, wild plants, utilization 768
 nectarines, cultivars 3835
 olives, production 2640
 onions, cultivars 4033
Opuntia, wild plants, utilization 9920
 oranges, cultivars 6310-6312
 Orchidaceae, pests, surveys 1607
 ornamental plants
 books 8182
 cultivars 9642
 peaches
 cultivars 3836
 production 10204
 persimmons
 cultivars 10893
 production 10892
 plums, plant nutrition, surveys 9322
Polygonum odoratum, production possibilities 10764
Simmondsia chinensis, production possibilities 4469, 9862
 strawberries, cultivars 5717-5719, 6670
Thryptomene, production possibilities 7126
Thryptomene calycina, cultivars 7126
Verticordia
 cultivars 7983
 disease control 6238
 research 6240
 species 6241
 wild plants, edible species 1018
- Austria**
 apples, production 3760
 fruit crops, economics 6531
 grapes, cultivars 3040
 pears, production 3760
- Avena sterilis**, as weeds, garlic 6745
- Avocado sunblotch viroid**, avocados 800
- Avocados**
 books 3701
 budding
 seasons 6301
 techniques 6301
 cultivars
 assessment
 Argentina 6300
 South Africa 788, 3563
 Venezuela 3562
 characteristics
 Israel 2580
 South Africa 786
 composition 8053
 grafting 6301
 identification 787
 pollination 803
 storage 4488
 cultural methods, economics 6302
 cuttings, rooting, biochemistry 2581
 disease control
 Akaropeltopsis 4479
 Armillaria 8052

Avocados cont.

- disease control cont.
 - Dothiorella aromatica* 6309
 - Glomerella cingulata* 3579, 6309
 - Phytophthora cinnamomi* 1709
 - reviews 6513
 - Phytophthora citricola* 3572
 - Pseudocercospora purpurea* 4479
- disorders
 - browning 810, 4485-4486
 - chilling injury 809, 811, 814, 817, 2584, 3580, 5359, 8936
 - grey pulp 809
 - pulpspot 809, 3580
- economics
 - Chile 4675
 - South Africa 3561
 - USA 4675
- fertilizers
 - boron 6304
 - nitrogen 6304-6305, 6308
 - zinc 799, 6306, 7190
- flowers, ultrastructure 802
- fruits
 - biochemistry 1710
 - composition 1710, 8053, 10820
 - development, mulching 3566
 - maturity
 - assessment 3576-3577, 4480
 - cultural methods 801
 - moisture content 4480
 - physiology 818
 - quality
 - cultural methods 3574
 - rootstock scion relationships 789
 - standards 2585
 - storage 812
 - transport 4487
 - ripening
 - harvesting date 2583
 - physiology 814, 4707
 - storage 815, 2583, 8936
 - set
 - cultural methods 3574
 - fertilizers 6304-6305, 6308
 - plant growth regulators 6308
 - pollination 6304
 - size
 - assessment 3575
 - cultural methods 801
 - mulching 9870
- fungicides, translocation 4477
- grafting
 - seasons 6301
 - techniques, assessment 6301
- handling, techniques 4481
- harvesting
 - harvesting date, assessment 808, 5359
 - techniques, assessment 3578
- herbicides, injuries 800
- high density planting, cultural methods 3565
- in vitro* culture
 - culture media 4476
 - embryos 4476
 - explants, sources 793
 - propagation, micropropagation 794
- irregular bearing, assessment 806
- irrigation
 - economics 6302
 - responses 795, 6303
 - water, salinity 796
- leaves
 - abnormal development 800
 - composition 6306, 7191
- mulching
 - materials 4483
 - responses 797, 3566, 9870
- pest control
 - Akaropeltopsis* 4478
 - Heliothrips haemorrhoidalis* 8935
 - Pagiocerus frontalis* 10818
 - Pseudocercospora purpurea* 4478
- photosynthesis
 - light 3733
 - temperature 3733
- plant, biochemistry 6307
- plant nutrition, boron 798
- pollen, tubes, development 6304
- pollination
 - compatibility 803

Avocados cont.

- pollination cont.
 - cultivars 3573
 - pollinators, Apidae 55, 804-805
- production
 - Brazil 6488
 - Israel 5358
 - South Africa 3561
- production possibilities, South Africa 2578
- pruning
 - seasons 3568
 - systems, assessment 3569
- regeneration, pruning 3568
- reproduction, biology 802
- research, South Africa 784-785
- respiration
 - physiology 4707
 - storage 10074
- ringing, responses 3567, 3570
- rootstock scion relationships
 - growth 789, 791, 3563
 - yields 789-792
- rootstocks
 - assessment, South Africa 786, 788, 3564
 - reviews 4475
- salinity
 - injuries 796
 - reviews 796
- soil amendments 3571
- soil management, responses 2582
- soil pH, soil amendments 3571
- storage
 - biochemistry 816, 8936
 - disease control 3579, 6309
 - diseases 817
 - disorders 809, 816-817, 3580, 4485, 8936
 - physiology 813, 10074, 10819
 - quality
 - cultural methods 3574
 - harvesting 3578
 - harvesting date 808, 2583
 - plant nutrition 811
 - systems
 - cold storage 811, 813-814, 5359
 - controlled atmosphere storage 810
 - hypobaric storage 810
 - hypoxia 7192
 - modified atmosphere storage 810, 813
 - temperature 801, 809, 812, 3577, 4480, 4484, 4488
 - treatment 809-810, 815, 2584, 3579-3580, 4482-4483, 4486, 8936
 - wrappings 4482
 - surveys, Madagascar 4676
 - transport, refrigeration 4487
 - water stress, measurement 10817
 - yearbooks 12, 2795, 5539
 - yields
 - forecasting 807, 5358
 - models 5358

Axonopus compressus

- plant
 - anatomy 4354
 - development, assessment 4354

Azadirachta indica

- fruits, development, biochemistry 4448
- plant extracts
 - application, cauliflowers 4104
 - utilization, fungicides 3058
- seeds
 - development, biochemistry 10771
 - mechanical properties, assessment 10777
 - storage, biochemistry 10771

Azaleas (see Rhododendron)**Azospirillum**

- control
 - of *Colletotrichum capsici*, *Capsicum* 8631
 - of *Rhizoctonia solani*, tomatoes 1437
- inoculation
 - garlic 7657
 - Polianthes tuberosa* 7905
- plant inoculation
 - Polianthes tuberosa* 9715
 - tomatoes 1437

Azospirillum cont.

- seed inoculation
 - Capsicum* 9558
 - okras 5070, 9551
 - tomatoes 1437
- utilization, fertilizers, okras 5070, 9551
- Azospirillum brasilense**
 - soil inoculation
 - Capsicum* 5075
 - onions 5075
- Azotobacter**
 - control, of *Colletotrichum capsici*, *Capsicum* 8631
 - inoculation
 - garlic 7657
 - Polianthes tuberosa* 7905
 - plant inoculation
 - onions 9444
 - Polianthes tuberosa* 9715
 - seed inoculation, okras 5070
 - utilization
 - fertilizers
 - Cymbopogon martinii* 10759
 - okras 5070
 - onions 4959
- Azotobacter chroococcum**
 - control, of *Rhizoctonia solani*, tomatoes 1437
 - plant inoculation, tomatoes 1437
 - seed inoculation, tomatoes 1437
- Azotobacter zettuvonii**, symbiosis, *in vitro* culture, carrots 6045
- Azteca chartifex**, control, of insects, cocoa 3654
- Aztekium ritteri**, plant, morphology 9735
- Babiana**, *in vitro* culture, propagation, micropropagation 7026
- Baccaurea motleyana**, processing, residues 5522
- Baccaurea sapida**, fruits, composition 7373
- Bacillus**
 - bananas 6376
 - control
 - of *Clavibacter michiganensis* subsp. *michiganensis*, tomatoes 1451
 - of *Uromyces appendiculatus*, *Phaseolus vulgaris* 3199
 - populations, vase water, roses 10728
 - utilization, fertilizers, tea 2758
- Bacillus licheniformis**
 - control
 - of *Glomerella cingulata*, mangoes 10975
 - of *Nattrassia mangiferae*, mangoes 10975
- Bacillus macerans**, extracts, application, *Pleurotus ostreatus* 3370
- Bacillus subtilis**
 - control
 - of *Dothiorella aromatica*, avocados 6309
 - of *Fusarium oxysporum* f.sp. *radicis-lycopersici*, tomatoes 6290
 - of *Glomerella cingulata*, avocados 6309
 - of *Phytophthora*, horticultural crops 10067
 - of *Pythium*, horticultural crops 10067
 - of *Rhizoctonia solani*, vegetables 326
 - of *Uromyces appendiculatus*, *Phaseolus vulgaris* 3199
- Bacillus thuringiensis**
 - control
 - of *Agrotis ipsilon*, okras 7770
 - of *Apomyelois ceratoniae*, pomegranates 2660
 - of *Bemisia tabaci*, tomatoes 10555
 - of *Helicoverpa armigera*, tomatoes 9599
 - of *Helicoverpa zea*, tomatoes 6020
 - of *Keiferia lycopersicella*, tomatoes 10555
 - of *Lepidoptera*
 - cabbages 9482
 - kiwifruits 9336
 - of *Liriomyza*, tomatoes 10555
 - of *Lobesia botrana*, grapes 290, 7624
 - of pests, kiwifruits 7560
- Bacillus thuringiensis subsp. aizawai**, control, of *Plutella xylostella*, cabbages 1335

- Bacillus thuringiensis** subsp. *israelensis*
control
 of *Bradysia coprophila*, poinsettias 4397
 of *Lycoriella fucorum*, mushrooms 6063
 of *Lycoriella mali*, mushrooms 7849
- Bacillus thuringiensis** subsp. *kurstaki*
control
 of arthropods, peaches 1150
 of *Ostrinia nubilalis*, *Capsicum* 3242
 of *Plutella xylostella*, cabbages 1335, 3149
 of *Spodoptera litura*, cabbages 3149
 of *Trichoplusia ni*, Chinese cabbages 4105
- Bacteria**
control
 of *Gloeosporium theae-sinensis*, tea 3688
 of *Guignardia camelliae*, tea 3688
 of *Pseudomonas syringae* pv. *lachrymans*, cucumbers 3177
ice nucleation, raspberries 2044
inoculation, *Boehmeria nivea* 1696
peaches 2960
Pleurotus saca 3371
plums 2960
populations
 dwellings, pot plants 7857
 growing media, mushrooms 564
 vascular system, roses 9789
 vase water, roses 9791, 10728
seed inoculation
 Capsicum 9558
 okras 5070, 9551
tomatoes 7808
utilization
 fertilizers
 carrots 9620
 okras 5070, 9551
- Bacteriophages**, control, of *Drepanopeziza ribis*, black currants 4871
- Bactris gasipaes**
mycorrhizas 877, 1855
pest control, *Geraeus* 11022
seeds
 germination
 growing media 5524
 temperature 5524
weed control 4651, 9105
- Bactrocera cucurbitae**
carambolas 970
Momordica charantia 8578
pawpaws 932
- Bactrocera dorsalis**
carambolas 970
guavas 917
pawpaws 932
- Bactrocera minax**, oranges 8954
- Bactrocera oleae**, olives 866, 1762, 3622-3623, 8984-8985
- Bactrocera tryoni**
Citrus 10865
oranges 1742
- Baculoviridae**, control, of *Oryctes rhinoceros*, coconuts 10921
- Baillonella toxisperma**, production possibilities, Gabon 5552
- Balanophora fungosa**, wild plants, edible species 1018
- Bamboos**
books 10044
in vitro culture
 propagation, micropropagation 558, 8714
 somatic embryogenesis 558
production, Thailand 4262
reviews 6181
- Bambusa beecheyana**
in vitro culture
 propagation, micropropagation 558
 somatic embryogenesis 558
- Bambusa multiplex**
photosynthesis
 seasonal variation 2474
 temperature 2474
- Bambusa ventricosa**
in vitro culture, propagation, responses 1638
shoots, morphology 1638
- Bambusa vulgaris**, in vitro culture, somatic embryogenesis 4411
- Bananas**
books 2793
cold, responses 886, 1786, 3651
cover crops, responses 1783
cropping systems
 agroforestry 824, 876, 5457, 9934
 intercropping 3648, 8715
 ratooning 7274
cultivars
 assessment
 Brazil 7405
 Cameroon 9000-9002
 Honduras 8116
 India 2674
 Nigeria 6375, 9000-9002, 9936
 South Africa 9928
 Uganda 5454
 characteristics
 Africa 6374
 Australia 4575
 Brazil 9003, 9929
 India 4576
 Nigeria 1780
 West Africa 2673
 disease resistance 4572-4573, 6374-6375, 7269, 9002-9003
 dwarf cultivars 6374, 8117
 mycorrhizas 4574
 pest resistance 4575
cultural methods
 China 4584
 Côte d'Ivoire 9925
 economics 1782
disease control
 Colletotrichum musae 9013
 Erwinia chrysanthemi pv. *paradisiaca* 2678
 Fusarium oxysporum f.sp. *cubense* 6378, 10911
 Mycosphaerella fijiensis 2677, 4573, 8123, 9009
 Mycosphaerella musicola 4581
 Pseudomonas solanacearum 884, 9937
disorders
 chilling injury 4586, 7278
 finger drop 6384
drought, resistance, cultivars 3642
ecology, books 7388
economics, India 7268
fertilizers
 nitrogen 1787, 3648, 7274, 9008, 10910
 phosphorus 3648, 7274, 9008
 potassium 883, 3648, 7274, 9008
flowers, development, assessment 5460
fruits
 abscission, physiology 5577
 biochemistry 2679
 cultural methods 9012
 hypoxia 4585
 maturity 6383
 composition 878
 covers, responses 9012
 flavour
 maturity 10912
 storage 10912
 quality, salinity 8121
 ripening
 assessment 8127
 biochemistry 4585, 5575, 6381-6382, 7275, 8124, 8126
 cultivars 7275
 physiology 5577, 8124
 plant growth regulators 6382, 7431
 storage 6384
 temperature 6384
 size
 cultural methods 9011
 pruning 882
 thinning, responses 9011
fungicides
 determination 6380
 residues 888
hail, protection 9933
handling
 injuries 7275
- Bananas** cont.
 handling cont.
 techniques
 Ghana 5461
 Vietnam 4702
 harvesting, equipment 8125
 in vitro culture
 contaminants 6376
 culture media 3646
 explants
 sources 879
 sterilizing 6376
 organogenesis 8119
 propagation
 micropropagation 30, 3646, 7270, 8119, 9004
 responses 4578
 responses, light 7271
 somaclonal variation 2675, 3645, 6377, 8118, 9004
 somatic embryogenesis 3644, 4579, 8119, 9932
 storage 3643, 4580
 techniques 30, 7260
 intercropping
 Amaranthus tricolor 8715
 soybeans 880
 irrigation
 economics 881
 requirements, determination 7273
 responses 881, 9006
 water
 salinity 8121
 sources 1785, 9007
leaves
 biochemistry
 plant growth regulators 886
 temperature 886
 composition 3645
 injuries
 responses 7272
 wind 3647
 physiology 3642
manures 5459
mulching, materials 1781, 8122
mutants
 induction, in vitro culture 8117
 yields 6377
nutrients
 requirements, analysis 3649
 uptake 8121
nutritive value 4587
packing, containers 9013
pest control
 Cosmopolites sordidus 885, 9938
 Metamasius hemipterus 885
 Nematoda 3726, 4582
 Odoiporus longicollis 3650
 Pratylenchus goodeyi 9005
 Radopholus similis 6379
photosynthesis, shade 8120
plant, composition 9935
plant growth regulators, ethylene, physiology 7277, 7428
planting, spacing 882, 1782
planting stock
 production, cultural methods 5456
 treatment 4582
processing
 China 9926
 quality, cultivars 8116
 residues 5522
production
 Brazil 6488
 China 9926
 Costa Rica 8115
 Gabon 9927
 Ghana 3639
 India 3641
 Rwanda 1778
 Tanzania 5453
 Uganda 3640
 Vietnam 2667
 Zimbabwe 1779
production possibilities, South Africa 2578
products, pectins 1774
propagation, techniques 9930
pruning, responses 882
reports, Australia 8189

Bananas cont.

- research
 - Côte d'Ivoire 9925
 - Rwanda 1778
 - Zimbabwe 1779
 - rhizomes, composition 4583
 - roots, development, temperature 9006
 - shade, responses 8120
 - soil amendments 5458, 9936
 - storage
 - buildings 5462
 - disease control 9013
 - disorders 4586, 6384
 - humidity 3652, 8502
 - physiology 6384
 - quality, maturity 10912
 - systems
 - controlled atmosphere storage 10080
 - modified atmosphere storage 887, 7278, 10912
 - temperature 887
 - treatment 887, 7276, 9939
 - wrappings 9013
 - suckers
 - production
 - age 4577
 - cultural methods 1781, 9931
 - surveys, Madagascar 4676
 - transpiration
 - plant water relations 4511
 - seasonal variation 9010
 - weed control 1784
 - windbreaks 3647, 7272
 - wounds
 - biochemistry 8124
 - physiology 8124
 - yields, correlation 1787, 2673
- Bandicota bengalensis**, grapes 3061
- Bangladesh**
- citrons, economics 2586
 - Cucurbita moschata*, cultivars 10461
 - Curcuma longa*, cultivars 7133
 - garlic, production 5798
 - onions
 - production 5798
 - research 5799
- Banksia**, cultivars, characteristics, Australia 9642
- Banksia baxteri**
- flowers
 - development, assessment 1639
 - initiation, assessment 1639
- Banksia hookeriana**
- flowers
 - composition 7103
 - development, assessment 1639
 - initiation, assessment 1639
 - nutrients, translocation 7102
- Barium**, composition, bananas 9935
- Bark**
- utilization
 - growing media
 - Anthurium* 6107
 - Bactris gasipaes* 5524
 - bedding plants 3381
 - Capsicum* 9564
 - chrysanthemums 3386
 - Codiaeum* 7920
 - Cotoneaster dammeri* 8873
 - cucumbers 3173
 - Cupressocyparis leylandii* 3475
 - Cyclamen* 3426
 - Dendrobium* 1606
 - Dieffenbachia* 7920
 - Forsythia ovata* × *Forsythia europaea* 8873
 - Hebe* 3505
 - horticultural crops 2814
 - lettuces 2162
 - oranges 8054
 - ornamental woody plants 6185
 - Pelargonium hortorum* 3399
 - Phalaenopsis* 1606, 7940
 - poinsettias 4393
 - Prunus cistena* 6232-6233
 - roses 6197
 - Swietenia mahagoni* 5296
 - tomatoes 9592

Bark cont.

- utilization cont.
 - mulches
 - apples 1076, 1945, 6555, 7467, 8264, 8271
 - avocados 797, 3566, 4483, 9870
 - grapes 6697
 - pears 7467
 - raspberries 2046, 7569
 - Rubus occidentalis* 2045
 - temperate fruits 1058
 - Vaccinium* 8413
 - Vaccinium corymbosum* 3009
 - soil amendments, lettuces 10418
- Barkeria**, taxonomy, nomenclature 7056
- Barleria cristata**, pot plants, production, cultural methods 5278, 7104
- Barley**, as cover crops, mandarins 6323
- Barringtonia**, surveys, Vanuatu 10904
- Basella alba**
- leaves, biochemistry, light 4260
 - plant nutrition, nitrogen 4260
- Basil, sweet** (see *Ocimum basilicum*)
- Basiothia schenki**, pollinators, *Disa cooperi* 4379
- Basitrolaimus indicus**, aubergines 4198
- Bassia scoparia** (see *Kochia scoparia*)
- Batemannia**, taxonomy, nomenclature 7056
- Batrachomorphus**, coffee 7301
- Bauhinia acuminata**, stomata, anatomy 7105
- Bauhinia lunarioides**, characteristics 732
- Bauhinia ramosissima**, characteristics 732
- Bauhinia vahlii**, stomata, anatomy 7105
- Bauhinia variegata**, *in vitro* culture, propagation, micropropagation 5279
- Bay laurel** (see *Laurus nobilis*)
- Bean common mosaic potyvirus**, *Phaseolus vulgaris* 5948
- Beans (Cyamopsis)** (see *Cyamopsis tetragonoloba*)
- Beans (Phaseolus)** (see *Phaseolus*)
- Beans (Vicia)** (see *Vicia faba*)
- Beauveria bassiana**
- control
 - of *Byctiscus betulae*, grapes 10340
 - of *Cosmopolites sordidus*, bananas 885
 - of *Metamasius hemipterus*, bananas 885
- Bedding plants**
- cultivars, assessment, USA 583
 - fertilizers 9655
 - growing media, composition 3381
 - nutrients, requirements, analysis 9656
 - pest control
 - Aphidoidea 7860
 - Diptera 7860
 - Thysanoptera 7860
 - planting stock
 - production
 - containers 8744
 - cultural methods 3381
 - soilless culture 8743
 - production, cultural methods, books 5530
 - species, assessment, USA 583
 - weed control 2377
- Bees** (see Apidae)
- Beetroots**
- anoxia 5836
 - cultivars
 - assessment, Poland 3104, 4967-4968
 - spacing 4053
 - fertilizers
 - boron 4948
 - molybdenum 4948
 - nitrogen 3104, 4948, 4967, 9452
 - potassium 4948
 - harvesting, harvesting date, assessment 4968
 - herbicides
 - persistence 8513
 - tolerance 3071
 - in vitro* culture, metabolites, production 344
 - nutritive value 7653
 - plant
 - biochemistry 4054
 - composition 3105
 - plant growth regulators
 - abscisic acid, responses 10397
 - gibberellic acid, responses 10397

Beetroots cont.

- plant growth regulators cont.
 - IAA, responses 10397
 - kinetin, responses 10397
 - planting, spacing 4053
 - pollution, caesium 4937
 - products, pigments 7675
 - roots
 - biochemistry 2142-2143
 - development, cultivars 4968
 - physiology 5837
 - quality
 - cultivars 345, 4967-4968
 - fertilizers 345, 4967
 - harvesting date 345
 - measurement 9157
 - seedlings, emergence, soil structure 1269
 - seeds
 - composition 1052
 - germination, soil amendments 9418
 - production, cultural methods 328
 - treatment 7643
 - soil amendments 2113, 9428
 - soilless culture, systems, hydroponics 3073
 - storage, treatment 6743
 - yields, correlation 10396
- Begonia**
- databases 5193
 - flowers, composition 629
 - herbicides
 - injuries 8745
 - tolerance 2377
 - leaves, shape, models 2401
 - pot plants
 - production, cultural methods 627
 - storage 10607
 - protected cultivation, heating systems 2371
 - tubers, development, histology 6122
 - weed control 2377
- Begonia cheimanthus**, pot plants, production, cultural methods 5194
- Begonia cucullata**, leaves, composition 10638
- Begonia dregei**, leaves, development, morphology 3424
- Begonia elatior**, plant growth regulators, ethylene, responses 7859
- Begonia erythrophylla**, *in vitro* culture, organogenesis 7889
- Begonia hiemalis**
- flowers, abscission, plant growth regulators 7431
 - pot plants, development, temperature 628
- Belarus**, temperate fruits, cultivars 3740
- Belgium**
- apples, cultivars 5592
 - blackberries, cultivars 228
 - broccoli, cultivars 1319-1320, 2177
 - Brussels sprouts, cultivars 2178
 - cauliflowers, cultivars 1321, 7697-7698
 - cherries
 - production 5636
 - rootstocks 3744
 - fruit crops, research 1889
 - leeks, cultivars 2123, 7660-7662
 - mushrooms, cultural methods 8725
 - ornamental plants, economics 8738
 - pears, cultivars 5592
 - Petroselinum crispum*, production 10763
 - Phaseolus vulgaris*
 - cultivars 1373
 - disease control 1373
 - pest control 1373
 - Philodendron billietiae*, cultural methods 3455
 - Pleurotus*, cultural methods 8725
 - plums, cultivars 5685
 - raspberries, cultivars 10280
 - red currants, cultivars 10280
 - Scorzonera*, reports 1015
 - shallots, cultivars 1292
 - strawberries, cultivars 9357, 10288-10289
- Bellevia anatolica**, taxonomy, new taxa 2400
- Bellis**, pot plants, production, cultural methods 10609
- Bellis perennis**, leaves, vascular system 9153
- Bemisia**, melons 2707

Bemisia argentifolii

cabbages 9483
grapes 1892
melons 9045-9046
poinsettias 7954
temperate fruits 1892
tomatoes 526, 2299, 6022
vegetables 5778
watermelons 5778, 9044

Bemisia tabaci

aubergines 1270, 1425, 2287
cabbages 10449
Capsicum 1416, 6902
cucumbers 1363, 6826, 9513-9514
Cucurbita pepo 1270, 1364
melons 3670, 4609
okras 3229
Phaseolus vulgaris 1270, 5006
poinsettias 1628
tomatoes 525, 1426, 1456, 1476, 8680, 10555-10556

Benincasa hispida

as rootstocks, watermelons 4607
fertilizers, rare earth elements 5868
seeds, germination, seed treatment 9499

Berberis, fertilizers 6187**Berberis aristata**, wild plants, edible species 10262**Berberis asiatica**, wild plants, edible species 1917, 10262**Berberis buxifolia**, seeds, treatment 760**Berberis chitria**, wild plants, edible species 10262**Berberis lycium**, wild plants, edible species 10262**Berberis osmastonii**, wild plants, edible species 10262**Berberis ottawensis**, irrigation, responses 4389**Berberis thunbergii**, cultivars, clones 4386**Bergenia cordifolia**

forcing 595
pot plants, production, cultural methods 595

Bergenia emeiensis, cultural methods, UK 5181**Bermuda grass** (see *Cynodon*)**Bertholletia** (see also Brazil nuts)**Beta** (see also Beetroots; Spinach beets)**Betonica officinalis** (see *Stachys officinalis*)**Betula nigra**

cultural methods, containers 5280
roots, development, cultural methods 5280

Betula pendula

cultivars, clones 4386
pollution, ammonia 8843
water stress, responses 8867

Betula pubescens, cultivars, clones 4386**Bhendi yellow vein mosaic bigeminivirus**, okras 3229, 10519**Biarum ditschianum**, cultural methods, UK 610**Bibliographies**

horticultural crops
disease control 7420
pest control 7420
spice plants 2518
spices 7130, 7985
Vetiveria zizanioides 3532

Bidens cernua, as weeds, carrots 6955**Bidens formosa** (see *Cosmos bipinnatus*)**Biennial bearing** (see Irregular bearing)**Bilberries** (see *Vaccinium*)**Biological control**

Acari
cherries 1993
grapes 1922
plums 1993
temperate fruits 1922

Acizzia uncatoides

Acacia 729
Albizia 729

Agrobacterium tumefaciens, fruit crops 2845**Agrobacterium vitis**, grapes 6707**Agrotis ipsilon**

lawns and turf 4352, 9724
okras 7770

Aleyrodidae
cucumbers 2307

Biological control cont.**Aleyrodidae cont.**

tomatoes 2307

Amyelois transitiella, almonds 3754**Anarsia lineatella**, almonds 3754**Anomala schonfeldti**, lawns and turf 4352**Aonidiella aurantii**, *Citrus* 5386, 8950**Aonidiella citrina**

clementines 1734

oranges 1734

Aphididae

cucumbers 2307, 7737

lettuces 1315

tomatoes 2307

Aphis gossypii

chrysanthemums 10620

cucumbers 407-408, 6825

Cucurbitaceae 3180

melons 911, 2708

vegetables 7649

Aphis nasturtii, vegetables 7649**Aphis spiraeicola**, apples 2891**Apomyelois ceratoniae**, pomegranates 2660**Aristobia testudo**, *Liichi* 2633**arthropods**

culinary herbs 6083

fruit crops 7422

ornamental plants 6083

peaches 1150

vegetables 2117

Bactrocera dorsalis, guavas 917**Bemisia argentifolii**

poinsettias 7954

tomatoes 526

watermelons 9044

Bemisia tabaci

cucumbers 6826

poinsettias 1628

tomatoes 10555

Botrytis cinerea

apples 1125, 6588

horticultural crops 1048

onions 339

pears 6588

Bradysia coprophila, poinsettias 4397**Bradysia paupera**, *Fuchsia* 5286**Brevicoryne brassicae**, Chinese cabbages 4105**Byctiscus betulae**, grapes 10340**Carpocapsa sasakii**, apples 120**Ceroplastes rubens**, *Citrus* 3598**Ceroplastes rusci**, oranges 1728**Clastoptera globosa**, cocoa 9019**Clavibacter michiganensis** subsp. *michiganensis*, tomatoes 1451**Coccoidea**, kiwifruits 7560**Colletotrichum capsici**, *Capsicum* 8631**Conopomorpha cramerella**, cocoa 9018**Corticium rolfsii**, *Zingiber officinale* 7137**Cosmopolites sordidus**, bananas 885, 9938**Cryphonectria parasitica**, chestnuts 168**Cyclocephala hirta**, Chinese cabbages 4105**Cydia pomonella**, apples 1967, 5614**Darna trima**, tea 2760**Delia antiqua**, onions 7671**Delia radicum**, cabbages 4106**Diabrotica undecimpunctata**

undecimpunctata, Chinese cabbages 4105

Diaphania hyalinata, squashes 406**Diaprepes abbreviatus**, *Citrus* 8073**Diptera**

ornamental plants 588, 590

Rhododendron 590

diseases, ornamental plants 4278

Dothiorella aromatica, avocados 6309

Drepanopeziza ribis, black currants 4871

Erwinia amylovora, apples 3786

Erythroneura elegantula, grapes 8476

Eupoecilia ambigua, grapes 5760

Frankliniella occidentalis

Capsicum 4192, 8632

cucumbers 2208, 5903, 6824

Gerbera 7867, 8754

fungi

oranges 7227

tomatoes 3288

Biological control cont.

Fusarium oxysporum, cucumbers 8576

Fusarium oxysporum f.sp. *basilicum*,

Ocimum basilicum 1666

Fusarium oxysporum f.sp. *cucumerinum*,

cucumbers 8576

Fusarium oxysporum f.sp. *cyclaminis*,

Cyclamen persicum 632

Fusarium oxysporum f.sp. *dianthi*, carna-

tions 2380, 10615

Fusarium oxysporum f.sp. *fragariae*,

strawberries 248, 3944

Fusarium oxysporum f.sp. *lycopersici*,

tomatoes 1452, 6018, 6930

Fusarium oxysporum f.sp. *radicis-*

lycopersici, tomatoes 3290, 10552

Gastropoda, lettuce 1316

Gloeosporium theae-sinensis, tea 3688

Glomerella cingulata

avocados 6309

mangoes 10975

Guignardia camelliae, tea 3688

Hauptidia maroccana, tomatoes 4231

Helicoverpa armigera, tomatoes 9599,

10554

Helicoverpa zea, tomatoes 6020

Helopeltis theivora, cocoa 2682

Hemiptera

ornamental plants 3080

vegetables 3080

Hyperomyzus lactucae, black currants

9342

Hypothenemus hampei, coffee 10929

insects

Brassica 4102

Citrus 1735

cocoa 3654, 4593

mushrooms 7847

ornamental plants 6084, 6515

pecans 2979

Piper nigrum 3515

poinsettias 7089

Keiferia lycopersicella, tomatoes 10555

Lacanobia oleracea, tomatoes 5107

Lepidoptera

cabbages 9482

kiwifruits 9336

Liriomyza, tomatoes 10555

Liriomyza bryoniae

greenhouse crops 4230

tomatoes 1459

Liriomyza trifolii

chrysanthemums 1539

tomatoes 2308

Listronotus oregonensis, carrots 1483

Lobesia botrana, grapes 290, 3981, 5760,

7624

Lycoriella auripila, mushrooms 3337,

7848

Lycoriella fucorum, mushrooms 6063

Lycoriella mali, mushrooms 7849

Macrosiphum euphorbiae

roses 7963

tomatoes 2308

Macrosiphum rosae, roses 6202

Megaselia halterata, mushrooms 7848

Meloidogyne incognita

aubergines 5083

tomatoes 523, 5083

vegetables 5776

Metamasius hemipterus, bananas 885

Monilinia laxa, peaches 5662

Myzus persicae, vegetables 7649

Natragia mangiferae, mangoes 10975

Nematoda

mushrooms 524

tomatoes 524

Neoseiulus fallacis, hops 8908

Orius laevigatus, *Gerbera* 7867

Oryctes rhinoceros

coconuts 10921

oil palms 8154

Ostrinia nubilalis, *Capsicum* 3242

Otiorynchus

ornamental plants 589-590

Rhododendron 590

Otiorynchus sulcatus

Chinese cabbages 4105

strawberries 7588

Ovatus malisuctus, apples 2891

Biological control cont.

- Panonychus ulmi*
apples 1090, 2895, 6533
grapes 1922
temperate fruits 1922
- Parabemisia myricae*, *Citrus* 1732
- Parapediasia teterella*, lawns and turf 4352
- Penicillium expansum*
apples 6588
nectarines 1156
pears 6588
- pests
Citrus 2595
fruit crops 7422
grapes 6706
greenhouse crops 8224
ornamental plants 3377, 4278
ornamental woody plants 7948
strawberries 3943
- Phlyctinus callosus*, apples 7487
- Phyllonorycter ringoniella*, apples 2891
- Phyllopertha horticola*, lawns and turf 10673
- Phytophthora*, horticultural crops 10067
- Phytophthora cactorum*, apples 6563
- Phytophthora capsici*, *Piper nigrum* 749
- Phytophthora cinnamomi*, *Rhododendron* 3488
- Phytophthora citrophthora*, oranges 3488
- Phytophthora colocasiae*, mandarins 10847
- Phytophthora cryptogea*, *Gerbera* 3396
- Phytophthora meadii*, *Elettaria cardamomum* 753
- Phytophthora nicotianae* var. *parasitica*
mandarins 10847
oranges 3488
- Rhododendron* 3488
- Planococcus citri*
Citrus 2609, 5386
guavas 3674
- Plutella xylostella*, cabbages 1335, 3149, 5007
- Podospheara leucotricha*, apples 8293
- Polyphagotarsonemus latus*, *Capsicum* 477
- Pseudomonas solanacearum*, tomatoes 517, 7809
- Pseudomonas syringae* pv. *lachrymans*, cucumbers 3177
- Pyralidae, lawns and turf 9724
- Pythium*
horticultural crops 10067
lawns and turf 8809
tomatoes 3288
- Pythium ultimum*, tomatoes 6930
- Pythium ultimum* var. *ultimum*, tomatoes 7810
- Quadraspidiotus perniciosus*, temperate fruits 1923
- Radopholus similis*, bananas 6379
- Rastrococcus iceryoides*, mangoes 2722
- Rastrococcus invadens*, mangoes 1829
- rats, oil palms 7342
- Rhizoctonia solani*
aubergines 10528
Capsicum 10528
passion fruits 3626
poinsettias 719
tomatoes 1437
vegetables 326
Zinnia elegans 10528
- Scirtothrips citri*
Citrus 2604
oranges 8951
- Sclerotinia sclerotiorum*
Carum carvi 1673
lettuces 5846
- Sclerotinia squamosa*, onions 8510
- Scrobipalpula absoluta*, tomatoes 6021
- Sphaerotheca fuliginea*, cucumbers 7736
- Spodoptera depravata*, lawns and turf 4352
- Spodoptera litura*, cabbages 3149
- Tetranychidae
cucumbers 2307
tomatoes 2307
- Tetranychus kanzawai*
grapes 4925
strawberries 2067, 3021

Biological control cont.

- Tetranychus pacificus*, grapes 1244
- Tetranychus urticae*
apples 2891
cucumbers 2831, 5902
Gerbera 7867
hops 1678
roses 727, 2831
strawberries 2831, 3021, 5902
- Thrips tabaci*
cucumbers 6824
leeks 7664
- Tortricidae, kiwifruits 7560
- Trialeurodes vaporariorum*
aubergines 6933
cucumbers 4141, 5903
tomatoes 2308, 3291-3292, 4232, 6023, 6933, 7814
vegetables 1365
- Trichoplusia ni*, Chinese cabbages 4105
- Trioxa eugeniae*, *Syzygium paniculatum* 4431
- Uncinula necator*, grapes 281, 1243
- Uromyces appendiculatus*, *Phaseolus vulgaris* 3199
- Venturia inaequalis*, apples 3787, 8293
- Verticillium dahliae*, aubergines 1423
- Yponomeuta malinellus*, apples 3791
- Biosteres arisanus*, control, of *Bactrocera dorsalis*, guavas 917
- Bird repellents**
methy anthranilate
determination, *Vaccinium* 5711
residues, *Vaccinium* 5711
- Birds**, dates 2630
- Bischofia javanica*, cropping systems, agroforestry 824
- Bitter acids**
composition, hops 10770
production, cultural methods, hops 9841
- Bixa orellana*
leaves, vascular system 7138
mycorrhizas 877
production possibilities, India 5306
products, dyes 9824
seeds, composition 5305-5306
- Black currants**
cultivars
assessment
Germany 227
Poland 7565
characteristics, Russia 2043
flowering date 3004
cuttings, cultural methods 4862
disease control
blackcurrant reversion virus 7567
Cronartium ribicola 8402
Drepanopeziza ribis 4871, 8402
Sphaerotheca mors-uvae 8402
fertilizers
potassium 6647
rare earth elements 6648
fruits
composition 5701
development, physiology 1191
set, fertilizers 6648
grubbing, techniques 9341
in vitro culture, plant embryos 3918
irrigation, responses 226-227
pest control
Cecidophyopsis ribis 7567
Hyperomyzus lactucae 9342
Synanthedon tipuliformis 5700
Tetranychus urticae 8403-8404
plant, development, phenology 3004
plant nutrition
nitrogen 2825, 7566
phosphorus 7566
potassium 7566
plant training, systems 3003
planting, site preparation 226
production, France 225
seeds, composition 5701
taxonomy, chemotaxonomy 1189
- Blackberries**
bark, biochemistry, seasonal variation 6521
cultivars
assessment
Belgium 228
Brazil 6651

Blackberries cont.

- cultivars cont.
characteristics
China 3005, 5703
USA 3005, 6652
disease resistance 3919
cultural methods, books 2784
disorders, sunscald 3920
fertilizers 8405
nitrogen 10278
fruits
cracking, plant training 3920
quality, fertilizers 10278
ripening
biochemistry 4875
physiology 230
- in vitro* culture
biochemistry 6654, 8406
chimaeras 6653
propagation, micropropagation 2811
responses, carbohydrates 6654-6655
ultrastructure 6655
- plant nutrition
calcium 10279
iron 10279
magnesium 10279
manganese 10279
nitrogen 10279
potassium 10279
sulfur 10279
zinc 10279
- plant training, systems 3920
production, Philippines 9355
storage
biochemistry 4894
quality
cultivars 6652, 6656
harvesting date 4877
maturity 6656
systems, controlled atmosphere storage 4876, 4894
- Blackcurrant reversion virus**, black currants 7567
- Blueberries** (see *Vaccinium*)
- Blandfordia**
species
history
Australia 9711
UK 9711
- Blandfordia grandiflora*
pollination
biology 1572
pollinators, *Iridomyrmex* 7904
- Bletia*, taxonomy, nomenclature 7056
- Bletia hyacinthina* (see *Bletilla striata*)
- Bletilla striata*
flowers, colour, biochemistry 1597
in vitro culture, propagation, techniques 7055
pollination, pollinators, Hymenoptera 6168
stomata
anatomy 6166
frequency 6166
- Blossfeldiana liliputana*, plant, morphology 9736
- Blueberries** (see *Vaccinium*)
- Boehmeria nivea*
cultural methods, China 1696
cuttings, cultural methods 8932
flowers, development 2571
in vitro culture
organogenesis 8931
propagation, micropropagation 9840
plant nutrition, potassium 7185-7186
- Boerhavia diffusa*, *in vitro* culture, organogenesis 3538
- Boletus badius*
pollution
cadmium 6969
copper 6969
lead 6969
radionuclides 3329
- Boletus chrysenteron*
pollution
cadmium 6969
copper 6969
lead 6969
- Boletus edulis*
composition 563
geographical distribution 3356

Boletus edulis *cont.*

- pollution
- cadmium 6969
- copper 6969
- lead 6969

Bolivia

- Erythroxylum coca*, production 10784
- Parajubaea torallyi*, ethnobotany 2574

Bolting

- cultivars
 - carrots 7839
 - onions 6759
- light, celery 8712
- photoperiod, Chinese cabbages 4087
- physiology
 - celeriac 1491
 - radishes 7719
- seed treatment, Chinese cabbages 4087
- sowing date, chicory 1301
- temperature
 - Eustoma* 612
 - leeks 4953

Bombax malabaricum, cropping systems, agroforestry 824**Bombus terrestris**, pollinators, tomatoes 5123**Books** (*see also* Dictionaries)

- agroforestry 10039
- Allium*, taxonomy, reviews 5532
- apples
 - fruits, thinning 7384
 - pest control 2783
- Arecaceae 7391, 10035
- Ascocenda* 4660
- avocados 3701
- bamboos 10044
- bananas 2793
 - ecology 7388
- bedding plants, production, cultural methods 5530
- blackberries, cultural methods 2784
- botanical gardens, UK 4657
- botany 2791
- Brazil, ethnobotany 10029
- Capsicum*, plant, characteristics 990
- carbohydrates, production 9113
- cashews 6471
- cherries 2794
- chestnuts 6469
- China
 - fruit crops 1000
 - medicinal plants 1000
 - ornamental plants 999
- Citrus* 9114
 - Australia 1865
- climate 1874
- climbers 994
- cropping systems, agroforestry, India 1873
- culinary herbs 10037
 - organic culture 2787
- edible fungi 10031
 - Burundi 1861
- essential oil plants 1859, 9112
- essential oils 8183
- ethnobotany 2, 2791, 8176, 10033, 10041
- fatty acids, composition, plants 9117
- fruit crops
 - cultivars, characteristics 989
 - cultural methods 1870
 - handling, techniques 10043
 - plant nutrition 4663
 - pruning, systems 9116
 - storage 1870
 - systems 10042
 - treatment 10042
 - wild plants
 - characteristics 989
 - utilization, Brazil 7390
- fruits
 - aroma, analysis, fruit crops 6473
 - flavour
 - analysis, fruit crops 6473
 - biochemistry, fruit crops 4670
- Fuchsia* 6472
- gardening, home gardens 9118
- grapes 7
 - in vitro* culture, techniques 10036
- greenhouse crops, pest control 987
- growing media 1860
- Gymnocalycium* 1867

Books *cont.*

- handling
 - techniques
 - fruit crops 10043
 - horticultural crops 9115
- Hedera* 5534
- herbicides, vegetables 2109
- Hevea* 2785
- horticultural crops
 - cultivars, nomenclature 3703
 - fertilizers 8181
 - pest control, Nigeria 7387
 - storage, pest control 1871
- horticulture
 - India 8
 - statistics 5533
- in vitro* culture
 - somatic embryogenesis, woody plants 1864
 - techniques
 - essential oil plants 8175
 - grapes 10036
 - medicinal plants 8175
- integrated control
 - diseases
 - grapes 2789
 - temperate fruits 2789
 - pests
 - grapes 2789
 - horticultural crops 997
 - temperate fruits 2789
 - weeds
 - grapes 2789
 - temperate fruits 2789
- Iris* 8180
- Malus* 988
- mangosteens 1875
- Matucana* 9111
- medicinal plants 1859, 9112, 10037
- nectarines
 - cultivars 4
 - cultural methods 4
- nut crops
 - cultural methods 6470
 - plant nutrition 4663
- oil palms 2790
- oils, biochemistry, plants 9117
- oilseed plants 10030
- olives, pest control 987
- onions 4656, 6474
- Orchidaceae 9, 3702, 5535, 7392
 - cultural methods 2786
 - pollination 1862
- organic culture, culinary herbs 2787
- ornamental bulbs 10038
- ornamental herbaceous plants, planting
 - stock, production, cultural methods 2792
- ornamental plants 4659, 10032
 - Australia 8182
 - cultural methods 8178
 - containers 3
 - hanging baskets 3
 - diseases, viruses 8179
 - pest control 1868
 - propagation, New Zealand 993
 - taxonomy, nomenclature 3699
- ornamental woody plants 10040
 - landscaping, urban sites 5531
 - pruning 996
- Paeonia* 6476
- peaches
 - cultivars 4
 - cultural methods 4
- pears, cultivars 10034
- Pelargonium* 3700
- Phaseolus vulgaris*, ecology 7388
- plant growth regulators 8173
- planting stock
 - production
 - cultural methods
 - ornamental herbaceous plants 2792
 - ornamental woody plants 5
- plants
 - illustrations 4662
 - USA 4661
- plums 8174
- protected cultivation, horticultural crops 991
- pruning, systems, fruit crops 9116

Books *cont.*

- Ranunculaceae 7385
 - raspberries, cultural methods 2784
 - research, experimental design 1866
 - Rhododendron* 986
 - roots 5537
 - roses, cut flowers, production 6475
 - seedlings, production, cultural methods,
 - bedding plants 5530
 - seeds, quality 4658
 - small fruits
 - flowering 7389
 - pollination 7389
 - South East Asia, plants, species 7386
 - spice plants 10030
 - stone fruits
 - diseases 995
 - disorders 995
 - storage
 - disease control, horticultural crops 1871
 - diseases, tropical fruits 992
 - disorders, tropical fruits 992
 - pests, tropical fruits 992
 - systems, fruit crops 10042
 - treatment, fruit crops 10042
 - taxonomy, nomenclature, ornamental plants 3699
 - temperate fruits
 - cultural methods 6470
 - flowering 7389
 - pollination 7389
 - tomatoes, protected cultivation 10
 - translocation, source sink relations, plants 8184
 - tropical crops 10030
 - production, India 2788
 - tropical fruits
 - storage 992
 - disease control 5529
 - Vaccinium*
 - diseases 985
 - disorders 985
 - Vanda* 4660
 - vegetables, cultivars, assessment, UK 5536
 - weed control 1872
 - vegetables 2109
 - West Africa, horticultural crops 3698
 - wild plants, edible species, Africa 8177
- Borago officinalis**
pollen, composition 3539
seeds, biochemistry 7131
- Borassus flabellifer**
fertilizers 1856
manures 1856
seeds, composition 8024
stooling, responses 7374
- Boron**
composition
 - apricots 9247
 - carnations 598
 - edible fungi 6061
 - Juglans* 10261
 - olives 3620
 - vegetables 5775
- deficiency
 - apples 2890
 - cucumbers 7734
 - olives 8100
- fertilizers
 - apples 1082-1083, 2890, 6578, 7478
 - avocados 6304
 - carnations 8746
 - cauliflowers 4096, 10444
 - coconuts 5473
 - horticultural crops 7418
 - onions 4042, 7670
 - pawpaws 1841
 - pears 1082
 - Vaccinium corymbosum* 6664
 - vegetables 4948
 - Zingiber officinale* 8891
 - Ziziphus mauritiana* 966
- metabolism
 - cultivars, grapes 3043
 - development, *Clivia miniata* 7028
 - environment, grapes 3043
 - growing media, tomatoes 10547
 - in vitro* culture, *Malus* 1103
 - iron, *Malus* 1103

Boron cont.

metabolism cont.

irrigation, oranges 4499
phosphorus

Citrus limonia 8060
mandarins 8060

rootstock scion relationships

grapes 8465
peaches 5654
pistachios 3900

salinity, grapes 8459

seasonal variation

Asparagus 3226
grapes 3053
Protea 741

zinc, *Hibiscus rosa-sinensis* 1648

plant nutrition

apples 1083
carnations 8746
Hebe 3505
Litchi 4544
olives 863
oranges 1723
vegetables 5775

responses

Asclepias curassavica 4455
coffee 10924
mandarins 8960
tea 11002

toxicity

grapes 2088
lawns and turf 10670
Pelargonium hortorum 4291
Tagetes patula 9692

translocation

avocados 798
nut crops 7445
temperate fruits 7445

uptake

avocados 798
cauliflowers 10444
cucumbers 5895
grapes 3042, 3051

Boronia, cultivars, characteristics, Australia 9642

Boronia edwardsii, *in vitro* culture, propagation, micropropagation 1640

Boronia filifolia, *in vitro* culture, propagation, micropropagation 1640

Boronia megastigma, flowers, development, biochemistry 2527

Boronia pilosa, *in vitro* culture, propagation, micropropagation 1640

Boronia ruppii, *in vitro* culture, propagation, micropropagation 1640

Bostrycopsis reichie, dates 6346

Botanical gardens

Australia 2369
UK, books 4657

Botryococcus braunii
cultivars, composition 5348

plant
biochemistry 774
composition 775

Botryodiplodia theobromae

apricots 157
Cinnamomum 6258
mandarins 6342
mangoes 7340, 9984
peaches 157

Botryosphaeria, kiwifruits 2042

Botryosphaeria dothidea

apples 2920
apricots 157
peaches 157

Botryosphaeria obtusa, apples 3766, 3805

Botrytis

kumquats 845
peas 8605
Pelargonium 10623
tomatoes 2305, 10572

Botrytis allii

onions 4961, 8509
vegetables 115

Botrytis byssoides, onions 8509

Botrytis cinerea

apples 1125, 6588, 10164
aubergines 8645
blackberries 4876
celery 1490
cucumbers 8574

Botrytis cinerea cont.

grapes 259, 282, 2103, 4924, 5759,
8469-8471, 9412, 10338
horticultural crops 1048
kiwifruits 220, 223, 7563, 9340
nectarines 9294
onions 339, 8509
peaches 9294
pears 6588, 10164
Pelargonium hortorum 9672
Phaseolus coccineus 1380
raspberries 231
roses 4404-4405, 7097-7098
strawberries 1211, 4895, 5738, 7581,
7591
tomatoes 5127, 6947

Bougainvillea buttiana, cuttings, treatment 5261

Bougainvillea peruviana, cuttings, treatment 7949

Bougainvillea spectabilis

plant nutrition 1619
pot plants, quality, plant growth regula-
tors 7075

Bowiea, taxonomy, keys 8784

Bowiea volubilis

in vitro culture
culture media 10778
organogenesis 10778

Boysenberries, fruits, composition 9349

Brachiaria humidicola, as cover crops,
Hevea 9074

Brachionidium renzii, taxonomy, nomencla-
ture 9758

Brachycaudus helichrysi, plums 3903

Brachychiton acerifolius, pot plants, produc-
tion, cultural methods 677

Brachychiton discolor, pot plants, produc-
tion, cultural methods 677

Brachychiton populneus, pot plants, produc-
tion, cultural methods 677

Brachycome, cultivars, characteristics, Aus-
tralia 9642, 9679

Brachycome chrysoglossa, characteristics 9680

Brachycorythis wightii, characteristics 6169

Brachysema, species, ornamental value 9797

Brachystelma bikaensis, taxonomy, new
taxa 5229

Brachystelma discoideum, flowers, colour,
genetic variance 5230

Brachystelma maritae, taxonomy, new taxa 7043

Bracteantha, cultivars, characteristics, Aus-
tralia 9642

Bradybaena similis, peas 3214

Bradyrhizobium, plant inoculation, *Maackia*
amurensis 4422

Bradysia coprophila, poinsettias 4397

Bradysia fucorum, mushrooms 6066

Bradysia paupera, *Fuchsia* 5286

Bran

utilization
growing media
Pleurotus ostreatus 5150, 6074,
10594

Pleurotus sajor-caju 6075

Brassavola nodosa

plant
development
light 9759
phenology 9759

Brassia, taxonomy, nomenclature 7056

Brassica (see also *Broccoli*; Brussels
sprouts; Cabbages; Cauliflowers; Chi-
nese cabbages; Kale; Kohlrabi; Swedes;
Turnips)

cropping systems, rotations 384
disease control, *Plasmodiophora brassi-
cae* 384
pest control, Papua New Guinea 4102
plant nutrition
calcium 1332
iron 1332
magnesium 1332
phosphorus 1332
potassium 1332
planting, spacing 10426
pollution, radionuclides 6730
production, Papua New Guinea 312
seeds, sowing, sowing date 10426

Brassica cont.

surveys, Papua New Guinea 312

Brassica alboglabra

in vitro culture, organogenesis 4089
seeds, vigour, tests 4085

soilless culture, plant nutrition 1332

Brassica campestris

disease control, *Fusarium oxysporum*
f.sp. *conglutinans* 9481
fertilizers, nitrogen 4110
photosynthesis, cultural methods 4110
plant nutrition 10445
calcium 3110
nitrogen 3110
potassium 3110
planting, spacing 4110
soilless culture
nutrient solutions, temperature 1328
systems, hydroponics 10445

Brassica carinata, nutritive value 7653

Brassica chinensis

cultivars, consumer preferences 2190
disease control, *Plasmodiophora brassi-
cae* 6793
fertilizers 6793, 8550
in vitro culture, propagation, micropropa-
gation 3138
leaves, physiology 6787
plant, development, models 8553
plant nutrition 10445
pollution, acid rain 9422
protected cultivation
light 8553
microclimate 4012
systems, row covers 318
temperature 5772
seeds, vigour, tests 4085
shade, responses 6784
soilless culture
nutrient solutions, temperature 1328,
4012, 5772, 6787
plant nutrition 1332, 5772
systems, hydroponics 10445

Brassica hirta, protected cultivation, sys-
tems, plastic tunnels 317

Brassica juncea

as trap crops, cabbages 7711
fertilizers, nitrogen 4091
irrigation, responses 4091
seeds, sowing, site preparation 7701
soilless culture, plant nutrition 1332

Brassica napus, plant, biochemistry, sea-
sonal variation 8554

Brassica nigra, irrigation, water, salinity 10745

Brassica oleracea

pollination, biochemistry 10454
seeds, composition 1265

Brassica oleracea var. costata, plant, bio-
chemistry, seasonal variation 8554

Brassica parachinensis

manures 3142
seeds, vigour, tests 4085

Brassicaceae

disease control, *Alternaria* 3150
pest control, *Plutella xylostella*, reviews 7709

plant, phytoalexins 5009
yields, diseases 10455

Brazil

bananas, cultivars 9003, 9929
blackberries, cultivars 6651

Brazil nuts, production 2774

Caryocar brasiliense, wild plants, utiliza-
tion 971

Chamomilla recutita, cultivars 8006

Citrus, pest control 7207

coffee, economics 8135

Cucurbita maxima

cultivars 3162
hybrids 3162

essential oil plants, production 8003

ethnobotany, books 10029

Euterpe edulis, economics 7376

fruit crops

cultivars 7405
production 6488
wild plants, utilization, books 7390
garlic, cultivars 7655
grapes
climate 10307

- Brazil cont.**
 grapes *cont.*
 cultural methods 2073, 10307
 production 10307
 guavas, cultivars 1819, 8145
Malpighia glabra, climate 11024
 mangoes, cultivars 9973
 medicinal plants, cultural methods 759
 melons, production 3663
 onions, cultivars 7665
 Orchidaceae, surveys 5253
 pawpaws, cultural methods 8156
 peaches, disease control 2960
 peas, cultivars 7753
Phaseolus vulgaris, cultivars 5928-5929
Piper nigrum, production possibilities 7995
 plums, disease control 2960
Stachytarpheta sellowiana, conservation 3456
 tomatoes, cultivars 6006, 7787
 vegetables, cultivars 7405
- Brazil nuts**
 mycorrhizas 877
 production, Brazil 2774
 propagation, techniques 2774
 seeds, composition 9108
- Breadfruits**
 cropping systems, agroforestry 3636
 cultivars, taxonomy 8111
 surveys, Vanuatu 10904
- Bremia lactucae**, lettuces 366, 1313, 4071
- Brevicoryne brassicae**
 Brussels sprouts 3148
 cauliflowers 3079
 Chinese cabbages 4105
- Brevipalpus chilensis**, temperate fruits 2846
- Briza maxima**
 as weeds, olives 7242
 dried flowers, production 9654
- Broccoli**
 cooling, techniques 2188
 cover crops, responses 9424, 9476
 cropping systems, intercropping 1326
 cultivars
 assessment
 Belgium 1319-1320, 2177
 Denmark 5858
 France 5857, 9469
 USA 7699
 Venezuela 10421
 harvesting date 10421
 identification 5859
 disorders, blindness 6791
 fertilizers
 iodine 9478
 molybdenum 9478
 nitrogen 6789
 vanadium 9478
 flowers, senescence 3152
 herbicides, injuries 1327
in vitro culture, propagation, micropropagation 9743
 intercropping
 Lolium 1326
 rye 1326
 Trifolium pratense 1326
 irrigation
 carbon dioxide, application 9419
 responses 6789
 systems 4092
 leaves
 biochemistry 1342
 composition 5876
 manures 4940
 mulching, responses 9424
 pest control, insects 1336
 plant
 biochemistry 2186
 development
 assessment 1342
 solar radiation 6791
 temperature 6791
 plant nutrition
 ammonium 2182
 nitrates 2182
 potassium 2182
 sodium 2182
 planting
 planting date 9472-9473
 spacing 9472
- Broccoli cont.**
 planting stock
 quality, assessment 8547
 storage 9743
 production, USA 4934
 protected cultivation
 systems
 plastic film 9488
 plastic tunnels 317
 reports, Belgium 1888, 9127
 research, Netherlands 8201
 respiration, carbon dioxide 3736, 4947
 roots, physiology 8547
 seedlings, development, assessment 2179
 seeds
 composition 5859
 germination
 physiology 9417
 seed treatment 7700, 9417, 10425
 temperature 7700
 production, cultural methods 9472, 9488
 treatment 4086, 7700, 10425
 shoots
 development
 models 1339
 temperature 1339
 soil amendments 4940
 soil management, systems 9476
 soil types 4092
 soilless culture, plant nutrition 2182
 spears
 aroma, storage 4119
 biochemistry 1342
 colour
 plant growth regulators 3153
 storage 5878
 composition 2182
 development, biochemistry 2182
 maturity, assessment 5877
 quality
 planting date 9473
 storage 4120
 temperature 9473
 senescence 7712, 8556
 storage
 biochemistry 3152, 4121
 disease control 4119
 physiology 7712, 8556, 10079
 precooling 2188
 systems
 controlled atmosphere storage
 2189, 4118, 10079-10080
 modified atmosphere storage 4120
 temperature 4118
 treatment 4119, 5878, 10456
 surveys, USA 336, 8505
 weed control 1326
Bromelia plumieri, fruits, composition 8172
Bromine, uptake, cucumbers 1357
Bromus arvensis, as cover crops, tomatoes 7806
Bromus hordeaceus
 as cover crops
 peaches 9287
 tomatoes 7806
Brontispa longissima, coconuts 10922
Broughtonia, books 7392
Brugmansia candida, flowers, fragrance, biochemistry 10729
Bruguiera cylindrica, products, beverages 1694
- Brussels sprouts**
 cultivars
 assessment, Belgium 2178
 disease resistance 9430
 cultural methods, India 3139
 disease control
 Albugo candida 9430
 Mycosphaerella brassicicola 9430
 fertilizers
 iodine 9478
 molybdenum 9478
 nitrogen 1331, 8498, 10439
 vanadium 9478
 leaves
 development
 fertilizers 1331
 plant nutrition 10441
 pest control
 Brevicoryne brassicae 3148
- Brussels sprouts cont.**
 pest control *cont.*
 Delia radicum 10450
 Mamestra brassicae 10450
 Plutella xylostella 10450
 plant, colour, assessment 5855
 plant nutrition, nitrogen 7707, 10439-10441
 planting
 planting date 4090
 spacing 4090
 pollination, compatibility 4114
 reports, Belgium 1887, 9127
 roots, development, assessment 10451
 sprouts, composition 6798
Bryophyllum (see also *Kalanchoe*)
Bucephalandra catherineae, taxonomy, new taxa 678
Bucephalandra motleyana, cultural methods, UK 679
Buchloe dactyloides
 herbicides
 injuries 9720
 tolerance 9720
 plant, development, temperature 10676
 roots, development, cultivars 4353
 seeds, germination, seed treatment 3442
 transpiration, measurement 10675
 water stress, sex 7035
- Budding**
 height, apples 7455, 8247
 rootstocks
 treatment
 oranges 5365
 walnuts 7555
 scions, treatment, walnuts 7555
 seasons, avocados 6301
 techniques
 avocados 6301
 Hevea 2738-2739
 Terminalia bellirica 7180
 Terminalia chebula 7180
 unions
 anatomy, apricots 10176
 histology, apples 77
 physiology, *Acer rubrum* 2489
 work study, roses 10724
- Buddleja davidii**
 cut flowers, production, cultural methods 6236
 planting, spacing 6236
 pollution
 exhaust gases 10717
 lead 10717
- Buds**
 biochemistry
 seasonal variation
 apples 124
 Ficus retusa 9274
 satsumas 10854
 temperature
 grapes 7633, 8481
 Vaccinium ashei 8418
 Vaccinium corymbosum 8418
 development
 anatomy
 apples 1939
 Rudbeckia hirta 4315
 assessment
 chrysanthemums 5169
 kiwifruits 213
 peaches 3874
 peas 8607
 raspberries 9345
 biochemistry, strawberries 4892
 fertilizers
 apples 10120
 grapes 4916
in vitro culture, watercress 10460
 models, *Kalanchoe pinnata* 3452
 physiology
 grapes 293
 lettuces 7694
 plant growth regulators, *Pittosporum eugenioides* 5290
 plant training, grapes 270
 pruning
 apples 99
 mandarins 4501
 rootstock scion relationships, apples 1939, 4747

Buds cont.

development cont.

- sowing date, tomatoes 3256
- temperature
- mangoes 4628
- Opuntia ficus-indica* 5444
- roses 1634

dormancy

- calcium cyanamide, grapes 2085
- cultivars, apples 10129
- cultural methods
- apples 6558
- grapes 9402
- oranges 8055

cyanamide

- apples 6558
- apricots 9243
- grapes 4927, 9401-9402
- kiwifruits 8397
- mangoes 7333

DNOC, apples 6558

fruiting, satsumas 2615

models, apples 4783

photoperiod, cherries 8333

physiology

- grapes 292, 8482, 9402-9403
- peaches 4835, 10216

plant growth regulators

- apples 6558
- grapes 2085, 9402
- tea 6457

potassium nitrate, apricots 9242-9243

rootstock scion relationships, oranges 8055

seasonal variation, satsumas 2615

temperature

- grapes 1251
- kiwifruits 216-217
- Pyrus pyrifolia* 8361
- satsumas 836

thiourea, apricots 9242

in vitro culture, satsumas 2615

initiation

- cultural methods, *Opuntia ficus-indica* 5447

in vitro culture, watercress 10460

plant growth regulators

- chrysanthemums 10617
- Opuntia ficus-indica* 5447

pruning

Opuntia 10902*Opuntia ficus-indica* 5447

injuries, temperature, apricots 9235

maturity, planting, Brussels sprouts 4090

size, planting, Brussels sprouts 4090

thinning, responses, grapes 6700

Bulbils, development, assessment, *Agave vilmoriniana* 10679**Bulbine**, taxonomy, chemotaxonomy 5155**Bulbine caput-medusae**, taxonomy, new taxa 5232**Bulbine francescae**, taxonomy, new taxa 5231**Bulbine hallii**, taxonomy, new taxa 5232**Bulbine pendens**, taxonomy, new taxa 5231**Bulbine vitrea**, taxonomy, new taxa 5231**Bulbophyllum**, taxonomy, new taxa 693**Bulbophyllum nilgherrense**

- leaves, anatomy 7932

shade, responses 7932

Bulbs

biochemistry, fertilizers, onions 2135

development

- assessment, *Lilium leichtlinii* 6885
- biochemistry

Allium wakegi 3103*Nerine bowdenii* 6130

cultivars, onions 4954

fertilizers, *Lilium leichtlinii* 6885histology, *Lilium longiflorum* 6122*in vitro* culture, *Lilium japonicum* 10648

photoperiod, onions 5826

plant growth regulators

Lilium 645*Lilium lancifolium* 645plant nutrition, *Lilium japonicum* 10648plant water relations, *Allium wakegi* 3103

storage, garlic 2121

Bulbs cont.

development cont.

temperature

garlic 5782

Lilium 645*Lilium lancifolium* 645

onions 5826

dormancy, *in vitro* culture, *Lilium japonicum* 646

flavour

biochemistry, onions 3099

cultivars, onions 4954

injuries, assessment, onions 4049

production

cultural methods

Fritillaria 10655*Lilium longiflorum* 3432*Lilium maculatum* 10649*Lilium pensylvanicum* 4324

quality

altitude, shallots 5784

assessment, garlic 1277

cultivars, shallots 1292

fertilizers, onions 7670

irrigation, onions 4040

plant growth regulators, garlic 9434

storage, onions 10393

shape, planting, onions 4038

size

cultivars

garlic 7655

onions 4954

planting, onions 4038

sprouting

plant growth regulators

garlic 9434

onions 10394

size, *Polianthes tuberosa* 10661

storage

disease control, tulips 4332

systems, ornamental bulbs 626

temperature

Allium neapolitanum 5203

Allium unifolium 10653

Ornithogalum arabicum 3439

treatment

cold

Lilium japonicum 648

tulips 651

essential oils, tulips 5202

fungicides, *Narcissus* 10651

plant growth regulators, *Lilium japonicum* 648

Bulgaria

cabbages, cultivars 10422-10423

Capsicum, cultivars 3232

peaches, cultivars 9278-9279, 9281

Rosa damascena, production 10765

Bunium persicum, *in vitro* culture, organogenesis 8005

Bupleurum, taxonomy, cytotoxonomy 9849

Bupleurum angustissimum, taxonomy, cytotoxonomy 9849

Bupleurum chinense, taxonomy, cytotoxonomy 9849

Bupleurum falcatum

altitude, responses 1680

cultivars, characteristics, Korea Republic 10780

cultural methods, Taiwan 1680

mulching, responses 10779

roots, biochemistry, seasonal variation 7158

seedlings, emergence, cultural methods 10779

seeds, germination, seed treatment 1680

Bupleurum kaoi

altitude, responses 1680

cultural methods, Taiwan 1680

seeds, germination, seed treatment 1680

Bupleurum scorzoniferolium, taxonomy, cytotoxonomy 9849

Burkina Faso, onions, production 5800

Burundi

coffee, research 1801

edible fungi, books 1861

Butia capitata, leaves, composition 1857

Byctiscus betulae, grapes 10340

Byturus tomentosus, raspberries 1193

Cabbages 7702

allelopathy 1266

Cabbages cont.

cover crops, responses 7710

cropping systems

- intercropping 7710, 10433, 10489
- rotations 6732

cultivars

assessment

Brazil 7405

Colombia 7642

Denmark 3133

India 10430-10431

USA 4084

Yugoslavia 8542

characteristics

Bulgaria 10422-10423

China 1323

Russia 3135

disease resistance 9430

spacing 3134

ultrastructure 389

disease control

- Mycosphaerella brassicicola* 4101, 9430

Peronospora parasitica 1333, 8552

Phytophthora 10067

Pythium 10067

Xanthomonas campestris pv. *campestris* 10448

disorders

chlorosis 5005

cracking 4109

economics, Canada 8492

fertilizers 6788

iodine 9478

magnesium 2183

molybdenum 9478

nitrogen 4097, 8551, 9477, 10438, 10443

phosphorus 4099, 9477, 10438

potassium 2183, 5004, 9477, 10438

rare earth elements 5868

sulfur 9479

vanadium 9478

frost

resistance

biochemistry 10453

plant growth regulators 9485

fungicides, residues 3081

green manures 8496

handling, techniques, Vietnam 4702

harvesting, equipment 6741, 6796

heat

responses 10452

tolerance 389

herbicides

injuries 8548

responses 3082

tolerance 3071

in vitro culture

culture media 9420, 10429

explants, sources 10428-10429

organogenesis 10428-10429

insecticides

metabolism 5874

persistence 5871

residues 1338, 4107, 5869-5870

intercropping

Coriandrum sativum 10433

Phaseolus vulgaris 10489

radishes 10433

Rumex acetosa 10433

spinach 10433

Trifolium 7710

Trigonella foenum-graecum 10433

irrigation

carbon dioxide, application 9419

frequency 3141

requirements

determination 4093

reviews 10361

responses 387

systems 3141

water, sources 2111

leaves

anatomy 4109

composition 2118, 4122, 7652

cytology 10452

ultrastructure 389

manures 379, 4095, 4940, 10437

mulching, responses 377, 8496

nutrients, requirements, assessment 4094

Cabbages cont.

- nutritive value 7653
- organic culture 4095
- pest control
 - Bemisia argentifolii* 5778, 9483
 - Bemisia tabaci* 10449
 - Crocicidolomia binotalis* 1337
 - Crocicidolomia pavonana* 3146
 - Delia radicum* 4106
 - Deroceras reticulatum* 9484
 - Halticus tibialis* 3146
 - Hellula undalis* 1337, 3146
 - insects 7710
 - Japan 6794
 - Lepidoptera 385, 2184, 7711, 9482
 - Meloidogyne incognita* 4945
 - Nematoda 4945
 - Noctuidae 3147
 - Papua New Guinea 4102
 - Pieris rapae* 386, 8496
 - Plutella xylostella* 386-387, 1334-1335, 1337, 3146, 3149, 4103, 5007, 8496, 9483
 - Russia 3144
 - Spodoptera litura* 3146, 3149
 - Trichoplusia ni* 386, 8496, 9483
- photosynthesis
 - carbon dioxide 4111
 - cultivars 5872
 - light 4111, 5872
 - temperature 5872
- plant
 - biochemistry 390
 - seasonal variation 8554
 - composition 6798
 - development, cultural methods 321
- plant nutrition
 - cadmium 1324, 7708
 - calcium 1325
 - iron 5005
 - magnesium 1325
 - nickel 6790
 - nitrogen 1325, 4097, 4942, 5866
 - phosphorus 1325, 4942
 - potassium 1325, 4942
 - sulfur 9479
- planting
 - planting date 10430-10431
 - spacing 3134, 8551, 10443
- planting stock, quality, assessment 8547
- pollution
 - caesium 4937, 5001
 - carbonyl sulfide 5862
 - fallout 5001
 - nickel 5863
 - radionuclides 5000
 - uranium 316
- production, Colombia 10358
- protected cultivation
 - plastic tunnels 3140
 - systems
 - greenhouses 5864
 - netting 5864
 - plastic tunnels 317, 5864
- rain
 - measurement 5770
 - responses 1264
- reports, Belgium 9127
- roots, physiology 8547
- seedlings
 - development, light 1903
 - physiology 5872
 - production
 - cultural methods 8544
 - protected cultivation 5864
 - quality, assessment 5860
- seeds
 - germination
 - physiology 9417
 - seed treatment 4999, 9417
 - tests 1260
 - production, cultural methods 4117, 8548
 - sowing, site preparation 7701
 - treatment 10448
- soil amendments 380, 1330, 4940, 5004, 9427, 10437
- soil compaction, responses 2112
- soil management, systems 5865
- soil solarization 4945

Cabbages cont.

- soilless culture
 - nutrient solutions, composition 7703
 - systems, hydroponics 3073
- storage
 - biochemistry 6797
 - physiology 10079
 - quality, fertilizers 2183
 - systems, controlled atmosphere storage 10079
- tillage, responses 2184
- transpiration, determination 6739
- weed competition 1325
- weed control 377, 2181, 7702, 8548-8549, 9475
- Cabbages x Chinese cabbages**
 - pollen, viability, tests 9486
 - pollination, compatibility 9486
- Cacao** (see Cocoa)
- Cacopsylla pyri**
 - fruit crops 7479
 - pears 2013, 7537
- Cacopsylla pyricola**, pears 8368
- Cactaceae**
 - conservation, Mexico 5218
 - cultural methods
 - Mexico 5218
 - USA 2579
 - nutritive value 2579
 - pollination, pollinators, Chiroptera 9732
 - propagation, techniques 5218
 - surveys, Mexico 1585
 - taxonomy, chemotaxonomy 6155
 - wild plants, utilization, Cape Verde 9731
 - winter hardiness, assessment 7038
- Cadmium**
 - biochemistry
 - cucumbers 10467
 - Phaseolus vulgaris* 10467
 - composition
 - algae 8219
 - apples 8219
 - Citrus* 8219
 - edible fungi 4265, 6969
 - essential oil plants 9815
 - fruit crops 9152
 - Gerbera* 8219
 - Hibiscus* 9428
 - Juglans* 10261
 - lettuces 3125, 10412
 - medicinal plants 9815
 - Oenothera biennis* 1688
 - Oenothera paradoxa* 1688
 - spice plants 9815
 - Talinum triangulare* 6968
 - temperate fruits 10069
 - vegetables 9152, 9428
 - determination
 - dates 4537
 - garlic 8515
 - Phaseolus vulgaris* 7746
 - spinach 8515
 - metabolism, soil pH, carrots 8702
 - plant nutrition, cucumbers 7735
 - responses
 - aubergines 10535
 - peas 3215
 - Rubia tinctorum* 8002
 - toxicity
 - cabbages 1324, 7708
 - Capsicum* 2278
 - Coriandrum sativum* 764
 - cucumbers 5910, 9509
 - Cucurbita maxima* 10364
 - gooseberries 7568
 - horticultural crops, reviews 4682
 - lettuces 10413
 - onions 4043
 - Papaver somniferum* 3550
 - peas 1391, 6859, 6869, 10364
 - Phaseolus vulgaris* 8673, 10364
 - tomatoes 8673
 - Vicia faba* 2240
 - translocation, *Phaseolus vulgaris* 6847
 - uptake
 - apples 2867
 - cabbages 1324
 - Capsicum* 2278
 - carrots 1482
 - Datura fastuosa* 7163
 - kale 5042

Cadmium cont.

- uptake cont.
 - lettuces 2164, 3125, 3129, 4077, 4941
 - okras 2269
 - ornamental plants 8739
 - Phaseolus vulgaris* 5042, 6847, 8673
 - spinach 1293, 1482, 4941
 - spinach beets 351, 3122, 6774
 - tomatoes 8673
 - Trigonella foenum-graecum* 4941
 - vegetables 325, 2113, 5771, 9427
- Caesium**
 - absorption
 - cabbages 5001
 - kohlrabi 5001
 - composition
 - edible fungi 3329
 - vegetables 4008
 - translocation, grapes 1442
 - uptake
 - edible fungi 7845
 - grapes 1442
 - lettuces 1307, 4072
 - radishes 4124, 5010
 - vegetables 2107, 6730
- Calabrese** (see Broccoli)
- Caladenia latifolia**, seedlings, development, mycorrhizas 4372
- Caladium bicolor**
 - in vitro* culture
 - propagation, micropropagation 10681
 - responses, light 8822
- Calamintha hortensis** (see *Satureja hortensis*)
- Calamondins**
 - flowers, biochemistry 2616
 - fruits, composition 9897
 - in vitro* culture, plant embryos 9880
 - leaves, areas, assessment 2808
- Calamus**, wild plants, edible species 1018
- Calanthe discolor**
 - seeds
 - germination
 - in vitro* culture 1598
 - seed treatment 1598
 - in vitro* culture 1598
- Calanthe izu-insularis**, flowers, fragrance, biochemistry 10698
- Calanthe sieboldii**, flowers, fragrance, biochemistry 10698
- Calcium**
 - biochemistry
 - Agapanthus africanus* 3403
 - Antirrhinum* 6086
 - Dionaea muscipula* 6111
 - fruit crops 2824
 - onions 5825
 - tomatoes 3300
 - composition
 - apples 1120, 2921-2922, 4804, 7473, 7491, 7494, 9203, 10157
 - bananas 9935
 - cherries 1134, 2933
 - Ficus* 10202
 - grapes 9391
 - Hericium erinaceus* 1503
 - horticultural crops 1052
 - Ilex paraguayensis* 10788
 - Juglans* 10261
 - kiwifruits 2993, 3917
 - Lentinula edodes* 5149
 - Malus micromalus* 10168
 - mangoes 1836
 - Oenothera biennis* 1688
 - Oenothera paradoxa* 1688
 - olives 3619
 - peaches 2947
 - Petunia* 2388
 - Pharbitis nil* 6999
 - Phaseolus vulgaris* 9525
 - plums 4855
 - Pyrus* 3895
 - Rubus* 1196, 9348
 - tomatoes 514, 8675
 - Vaccinium ashei* 239
 - walnuts 8392
 - wild plants 4004
 - deficiency
 - carnations 598
 - cucumbers 7734

Calcium cont.

deficiency cont.

Cucurbita maxima 2204
Laelia cinnabarina 7059
 mangoes 7325
 pawpaws 9063
Rhododendron 4400
 tomatoes 514, 6928

determination, guavas 2717

fertilizers

apples 2874, 7478, 8365, 10166
Capsicum 6900
Coriandrum sativum 3522
Impatiens walleriana 7876
 leeks 9435
Maytenus aquifolium 5341
 melons 10934
 onions 5822
 oranges 1739, 4525, 10843
 pears 188, 8365
 satsumas 10840
 strawberries 5731
 tomatoes 4225, 6926-6927, 7800

metabolism

amino acids, *Phaseolus vulgaris* 9526
 biochemistry

Rosa roxburghii 4403
 tomatoes 6938

cadmium, cabbages 7708

climate, grapes 3054

cultivars

apples 4773
 cabbages 5866
 grapes 3043
 plums 4857-4858
 radishes 5886

cultural methods

apples 8304
 chrysanthemums 605
 peaches 9291
 pears 10234

development, plums 9326

disorders

apples 1122
 avocados 4485

environment, grapes 3043

fertilizers

apples 1954, 2885, 8307, 8365
 cucumbers 6818
Hevea 2748
 pears 8365
 spinach 6763
 spinach beets 6773

fruiting, mangoes 1827

harvesting, *Amaranthus mantegazzianus* 6054

in vitro culture

cucumbers 4129
 tomatoes 3302

irregular bearing, apples 2913

irrigation

mushrooms 9631
 oranges 4499
 pomegranates 10898
 tomatoes 3266

light, tomatoes 5114

maturity, *Asparagus* 6880

mulching, avocados 4483

mutants, grapes 300

mycorrhizas, *Asparagus* 10512

nitrogen

apples 6561
 cabbages 5866
Capsicum 8628
 peaches 2954
 pears 2954
Vaccinium ashei 2051

pH, kohlrabi 378

phosphorus

cherries 1132
Citrus limonia 8060
 mandarins 8060
 peaches 2955
 pears 2955

physiology, *Phaseolus vulgaris* 8596

plant growth regulators

apples 8365
 pears 8365
Pistacia lentiscus 2576
 pomegranates 10898

plant nutrition, tomatoes 10563

Calcium cont.

metabolism cont.

pollination, apples 4790

potassium

Boehmeria nivea 7185
 figs 170
 peaches 2956
 pears 2956

ripening, plums 9326

rootstock scion relationships

cherries 4812
 grapes 3975
 limes 10826
 oranges 3584
 peaches 3844, 5654
 pistachios 3900
 tomatoes 8656
 watermelons 9039

salinity

Capsicum 5998, 8628
 cucumbers 3284
 guavas 9050
 onions 3092
 peaches 3849, 3857
Phyllanthus emblica 2779
 tomatoes 3266, 3284
Ziziphus rotundifolia 11018

seasonal variation

apples 4773
Asparagus 3226
 grapes 3038
 peaches 10213
Protea 741
Spondias purpurea 2781
Vaccinium 3008
 walnuts 8391
Ziziphus sativa 11016

sex, spinach 8523

soil amendments

avocados 3571
Macadamia integrifolia 6353

soil pH, *Vaccinium* 1200

soilless culture

tomatoes 507, 4221-4222
Vaccinium 3008

somatic embryogenesis, carrots 5141

storage

apples 4732, 4798
 radishes 5886

temperature

cucumbers 4131
 vegetables 5772

zinc, *Hibiscus rosa-sinensis* 1648

plant nutrition

Agave 9839
 apples 1985, 2914, 4753, 10166
 blackberries 10279
Brassica campestris 3110, 10445
 cabbages 1325
 carrots 6954
 cashews 1794
 celery 8710
 cherries 3818, 4817
 chicory 4982
 Chinese cabbages 6792
Clematis vitalba 5283
Cupressus arizonica 1621
Dactylorhiza incarnata 2442
 fruit crops 2824
 grapes 274
Gypsophila paniculata 6112
Impatiens walleriana 7876
 kiwifruits 3917
Laelia cinnabarina 7059
 lettuces 4997
Liichi 4544
 mangoes 7325, 10953, 10955
 olives 863, 8100
 oranges 10843
 pears 1164, 8372
Phaseolus vulgaris 2229-2230, 9525
 plums 4855
 radishes 6799
Rosa damascena 7148
 spinach 3110, 4055
 strawberries 247, 5729
 tea 958
 tomatoes 3282, 5101, 6017, 7789, 8676, 10563
Vaccinium ashei 239
Vaccinium corymbosum 10283

Calcium cont.

requirements

analysis

cabbages 4094
 grapes 6704, 7619
 peaches 2000
Spondias purpurea 2781

responses

apples 148, 3805, 4788, 4801, 6587, 7509, 10161
Asclepias curassavica 4455
 avocados 4483
 carrots 8704
 cherries 4817
 Chinese cabbages 6786
 grapefruits 5405
 grapes 278, 6719, 8488
 guavas 10947
 loquats 7240
 mandarins 5384, 8960
 mangoes 7339
 melons 4613, 9965
 onions 4041
 pears 5678, 6634
 peas 3215
Pleurotus 578
Pyrus bretschneideri 3897
 raspberries 6658
 sapodillas 9086
 tomatoes 1472-1473
Vicia faba 2242

toxicity

apples 5628
 grapes 6705

translocation, apples 7494

treatment

apples 4799, 10159
 guavas 9971
 melons 5491

uptake

apples 106, 2864
Brassica 1332
Capsicum 2279
 cherries 3819, 6599
 Chinese cabbages 4100
 cucumbers 5895
 grapes 267, 3034, 3041-3042
Impatiens 4307
 lettuces 1307, 4996
Lilium leichtlinii 10518
 melons 909
 onions 5822
 oranges 3607
 ornamental plants 3376
Phaseolus vulgaris 9526
 plums 4856
 strawberries 3940, 5729, 10295
 tea 7359
 tomatoes 2304, 7807, 8671, 9589
Valerianella locusta 3129
Vicia faba 2241
Ziziphus mauritiana 1853

Calendula, as weeds, olives 8097

Calendula officinalis

fertilizers

nitrogen 4297
 phosphorus 4297
 planting, spacing 9681
 seeds

production, cultural methods 4297
 size, assessment 3405

Calepitrimerus, fruit crops 7484

Calepitrimerus vitis, grapes 284, 289, 2092, 3060, 9412

Calla aethiopica (see *Zantedeschia aethiopica*)

Callaphis juglandis, walnuts 6641

Calliblepharis jubaia

plant

biochemistry, seasonal variation 10806
 development, seasonal variation 10806

Callistemon, cultivars, characteristics, Australia 9642

Callistemon citrinus, stomata, histology 2491

Callistephus chinensis

cultivars, pest resistance 7003
 cut flowers, vase life 3406

- Calluna vulgaris**
disease control, *Rhizoctonia* 3479, 10718
frost, resistance, assessment 7079
- Calmodulin**
biochemistry
carrots 6958
cauliflowers 6958
Petunia 3400
responses, carrots 2327
- Calocarpum** (see also *Pouteria*)
- Calotropis procera**, altitude, responses 10781
- Caltha palustris**, allelopathy 8211
- Calycanthus**, ornamental value 6180
- Camellia** (see also *Tea*)
climate, Germany 3473
cultivars, winter hardiness 713, 715
flowers
anatomy 711
colour, grafting 710
frost
injuries 714
resistance, cultivars 715
pest control, USA 2476
photosynthesis, light 5576
plant
development
photoperiod 3474
temperature 3474
winter hardiness, cultivars 713, 3473
yearbooks 5538
- Camellia achrysantha**, taxonomy, new taxa 6189
- Camellia crapnelliana**, *in vitro* culture, organogenesis 712
- Camellia granthamiana**, *in vitro* culture, organogenesis 712
- Camellia gymnogyna**, plant, composition 2768
- Camellia hiemalis**, cuttings, treatment 1620
- Camellia hongkongensis**, *in vitro* culture, organogenesis 712
- Camellia japonica**
reproduction, fertilization 7076
taxonomy, anatomy 711
- Camellia nitidissima**, taxonomy, anatomy 711
- Camellia xifongensis**, taxonomy, new taxa 6188
- Camellia yunnanensis**, taxonomy, anatomy 711
- Cameroon**
apples, cultivars 10095
bananas, cultivars 9000-9002
- Campanula**, plant, anatomy 6109
- Campanula carpatica**
cultivars, disease resistance 7872
disease control, *Phytophthora cryptogea* 7872
pot plants, longevity 5575
- Campanula isophylla**, pot plants, production, cultural methods 7873
- Camphor** (see *Cinnamomum camphora*)
- Camptotheca acuminata**
in vitro culture
culture media 8911
propagation, micropropagation 8911
- Canada**
apples, cultivars 9169, 9173
cabbages, economics 8492
cherries, cultivars 6597, 9265
grapes, diseases, surveys 277
onions, economics 8492
ornamental woody plants, disease control 7074
Phaseolus vulgaris, economics 8492
raspberries, cultivars 5704
strawberries, cultivars 1203, 3935, 9358
tomatoes
cultivars 501
economics 8492
Ulmus, cultivars 743
Vaccinium corymbosum, ecology 8420
- Cananga odorata**, ovules, morphology 2834
- Canarina canariensis**, leaves, composition 8763
- Canarium**, surveys, Vanuatu 10904
- Candida guillermoidii**, control, of fungi, oranges 7227
- Candida oleophila**
control
of *Botrytis cinerea*, apples 1125
- Candida oleophila** cont.
control cont.
of *Penicillium expansum*, nectarines 1156
- Cannabis sativa**
disease control, *Corticium rolfsii* 6275
fertilizers, nitrogen 6275
trichomes 7159
- Cantharellus cibarius**
composition 563, 7852
pollution
cadmium 6969
copper 6969
lead 6969
- Cantharellus tubaeformis**, composition 7852
- Cape Verde**
Cactaceae, wild plants, utilization 9731
onions, production 5800
- Caper** (see *Capparis spinosa*)
- Capnodium citri**, mandarins 1726
- Capparimya savastani**, *Capparis spinosa* 7987
- Capparis masaikai**, seeds, biochemistry 1697
- Capparis ovata**, ecology, Turkey 6244
- Capparis spinosa**
ecology, Turkey 6244
pest control, *Capparimya savastani* 7987
pests, surveys, Italy 7987
- Capsella bursa-pastoris**
as weeds
cabbages 9475
lawns and turf 8802
olives 8097
strawberries 2064
- Capsicum**
allelopathy 1266, 5069
chloroplasts
biochemistry 5079
isolation 5486
climate, Hungary 9560
cropping systems
intercropping 36, 3244, 4214, 5074, 5994, 5999
rotations 6732
cultivars
assessment
Argentina 5072
Brazil 7405
Colombia 7642
Egypt 5992
India 6896
Korea Republic 10523
Poland 469, 5073
USA 1409
Yugoslavia 3231
characteristics
Bulgaria 3232
China 1411, 3233-3234
composition 5081
disease resistance 1410-1411
pest resistance 7771
defoliation, responses 8624, 10526
disease control
Alternaria alternata 470, 475
Alternaria solani 470
Colletotrichum capsici 8631
Corticium rolfsii 6901
cucumber mosaic cucumovirus 2280
Hungary 8629
Leveillula taurica 475, 3241
Phytophthora capsici 476, 5077, 7776
potato Y potyvirus 2280
Rhizoctonia solani 10528
tomato spotted wilt tospovirus 4190
viruses 5999, 8630
disorders, chilling injury 479
economics, Argentina 3723
fertilizers 4186
nitrogen 473, 1414, 3244, 4187-4189, 4943, 5075, 5993, 8626, 8628, 8643
phosphorus 3244, 4187, 5075
potassium 3244, 4187, 5076, 9564
flooding, responses 6901
flowers, drop, physiology 10530
frost, injuries 4588
fruits
abscission, physiology 5577
biochemistry 1419, 1421, 5079
plant growth regulators 8638
storage 479
- Capsicum** cont.
fruits cont.
biochemistry cont.
temperature 482
colour, storage 4196
composition 5081, 7832, 10532
development, biochemistry 2282, 7778-7779
physiology 1420
ripening
biochemistry 480-481, 2282, 5080, 7823, 8636-8637, 10531
physiology 5577
set, soil temperature 3243
ultrastructure 4193
growing media
composition 9563
water relations 3236
hail, injuries 315
harvesting
equipment 7780
harvesting date, assessment 3246, 9567
heat, responses 6000
herbicides
injuries 7773
responses 4193
hybrids, assessment, Yugoslavia 3231
in vitro culture
anthers 2274, 4185
culture media 9420
histology 2281
organogenesis 1412, 2275, 2281, 10360
propagation, micropropagation 471, 6898
insecticides
metabolism 1418
residues 6001, 9565
intercropping
Coriandrum sativum 5074
cotton 5994
garlic 5074
onions 5074
rice 36
Tagetes erecta 5999
tomatoes 4214
irrigation
carbon dioxide, application 9419
frequency 3244
requirements
determination 3236, 6918-6919
reviews 10361
responses 8625
systems 8625
leaves
abscission, physiology 5663
injuries, carbon dioxide 2277
physiology 9154
ultrastructure 744
manures 5074, 8625
mulching
materials 3238, 5484, 5999, 7774, 9562
responses 5995
mycorrhizas 1413, 4692
nutrients, requirements, analysis 323
pest control
Aphis gossypii 7649
Aphis nasturtii 7649
arthropods 7420, 10529
Bemisia tabaci 1416, 6902
Frankliniella occidentalis 2280, 4190, 4192, 8632
Helicoverpa zea 1417
Hungary 8629
Indonesia 474
insects 4191
Meloidogyne incognita 5776
Myzus persicae 4946, 7649, 8633
Ostrinia nubilalis 1417, 3242
Polyphagotarsonemus laus 477, 5078, 7777
Spain 2116
Spodoptera frugiperda 1417
Thysanoptera 4195
photoperiodism 8686
photosynthesis
light 1420
photoinhibition 9601

Capsicum cont.

- photosynthesis *cont.*
 - photoperiod 529, 8686
 - physiology 529, 744
 - temperature 5486
- plant
 - characteristics, books 990
 - development
 - carbon dioxide 2277, 3237
 - cultural methods 321
- plant growth regulators
 - abscisic acid, metabolism 2282
 - 2,4-D, responses 6896
 - ethylene, responses 9682
 - NAA, responses 6896
 - polyamines, metabolism 2282
 - triacontanol, responses 472
- plant nutrition
 - aluminium 2279
 - cadmium 2278
 - iron 5996-5997
 - manganese 6900
 - nitrogen 3237
 - phosphorus 7775
 - titanium 8626
- plant training
 - responses 3243
 - systems 10527
- planting
 - planting date 1409, 5995
 - site preparation 5995, 9421
 - spacing 3244, 5993, 6899
- planting stock, production, cultural methods 3235
- pollen
 - germination
 - cultivars 8635
 - temperature 8635
- pollination
 - pollinators, Apidae 8634
 - techniques 4194
- pollution
 - acid rain 5560
 - heavy metals 9561
 - sulfur dioxide 10525
- pot plants, development, plant growth regulators 9682
- processing, residues 7832
- production
 - Colombia 10358
 - Korea Republic 10522
 - USA 4934
- production possibilities, Taiwan 9415
- protected cultivation
 - cladding 2226
 - cultivars 5992, 9556
 - disease control 3241
 - heating systems 2226
 - light 478
 - mulching 3239-3240
 - pest control 4192, 5777, 7649, 8632
 - pests 8633
 - plant nutrition 323
 - plant training 3243
 - planting, planting date 9556
 - pollination 8634
 - soil temperature 3243
- rain, measurement 5770
- reports, Belgium 1884
- research, Italy 468
- respiration, storage 2284
- salinity, responses 5998, 8627-8628
- seedlings
 - development, temperature 9566
 - planting, equipment 2276
- production
 - containers 5073
 - energy requirements 6498
 - labour requirements 6498
- seeds
 - composition 7832
 - germination
 - inhibitors 5069
 - seed treatment 470, 7772, 10524
 - storage 6897
 - temperature 7772
 - tests 8622
 - production
 - cultivars 3245
 - cultural methods 4194
 - drying 8622

Capsicum cont.

- seeds *cont.*
 - production *cont.*
 - harvesting 2283, 8622
 - sowing, site preparation 1414
 - storage
 - duration 6897
 - temperature 10524
 - treatment 7643, 9557-9558, 10524
 - vigour
 - cultivars 9558
 - seed treatment 9558
- shade, responses 8623
- soil amendments 1330, 8643, 9428
- soil fumigation 7774
- soil solarization 476, 5077
- soil types 4186
- soilless culture
 - nutrient solutions
 - pH 5997
 - temperature 5997
- storage
 - disease control 475
 - humidity 1422
 - packing 1422
 - physiology 4196
 - quality, cultivars 5992, 8621
 - systems
 - controlled atmosphere storage
 - 2284, 4196, 7782
 - modified atmosphere storage
 - 2838, 7781
 - treatment 6743, 8639
 - translocation, source sink relations 6903
 - transport, systems, assessment 7782
 - weed competition 7799
 - weed control 37, 2131, 7773, 8494, 9559
 - yields, pests 1410, 4195, 6904

Caragana arborescens, grafting, scions, assessment 5259**Carallia brachiata**

- cultivars, ornamental value 7106
- landscaping, roadsides 7106

Carambolas

- fertilizers
 - potassium 9104
 - trace elements 9104
- flooding, responses 11021
- flowers, composition 6464
- fruits
 - quality
 - fertilizers 9104
 - position 2773
 - size
 - fertilizers 9104
 - position 2773
- in vitro* culture, propagation, micropropagation 7372
- leaves, composition 6464
- pest control
 - Bactrocera cucurbitae* 970
 - Bactrocera dorsalis* 970
 - Ceratitidis capitata* 970
 - Eucosma notanthes* 10021
- plant nutrition 6464
- processing, residues 5522
- production possibilities, Argentina 5357
- products, pectins 1774
- propagation, techniques 1854
- storage, pest control 970
- wind, injuries 5523

Caraway (see Carum carvi)**Carbohydrates**

- biochemistry
 - Capsicum* 5079
 - celery 1488
 - nut crops 7445
 - radishes 5885
 - temperate fruits 7445
- composition
 - Agave* 10767
 - Amaranthus* 4257
 - apples 6579, 8306
 - Chlorella vulgaris* 763
 - edible fungi 1497
 - Ficus* 10202
 - Gypsophila paniculata* 6112
 - onions 2126-2127
 - Osmunda japonica* 1497
 - Physalis ixocarpa* 6369
 - Plantago lanceolata* 4466

Carbohydrates cont.

- composition *cont.*
 - Ramaria flavo-brunescens* 6987
 - tea 7368
- determination, melons 6418
- metabolism
 - biochemistry, *Ajuga reptans* 5179
 - cropping systems, tea 2755
 - cultivars, *Capsicum* 10530
 - cultural methods
 - Capsicum* 10530
 - Dunaliella tertiolecta* 3544
 - kiwifruits 3001
- development
 - chicory 1304
 - Nerine bowdenii* 6130
- disorders, mangoes 7331
- fertilizers, *Cupressus sempervirens* 9771
- flowering, satsumas 3604
- forcing, chicory 7682
- fruiting
 - oranges 7214
 - tomatoes 7825
- growing media, *Cupressus sempervirens* 9772
- hypoxia, bananas 4585
- in vitro* culture, *Aronia arbutifolia* 4410
- irregular bearing, mandarins 7215
- irrigation
 - pomegranates 10898
 - tomatoes 504, 3266
 - Urginea maritima* 6291
- light
 - Aronia arbutifolia* 4410
 - Cupressus sempervirens* 9771
 - spinach 8521
- maturity
 - Agrocycbe cylindracea* 6976
 - Vigna unguiculata* 6876
- mycorrhizas
 - cucumbers 402
 - sour oranges 7201
- nitrogen, apples 6562
- physiology, *Lilium* 8791
- plant growth regulators
 - Aronia arbutifolia* 4410
 - pomegranates 10898
- plant training, mangoes 9977
- ringing, peaches 4836
- ripening
 - persimmons 9919
 - tomatoes 7822
- rooting, *Vitis berlandieri* × *Vitis rupestris* 6687
- rootstock scion relationships, apples 6562
- salinity
 - apples 6562
 - sour oranges 7201
 - tomatoes 3266
- seasonal variation
 - grapes 3966, 4930
 - kiwifruits 3910
 - strawberries 251
 - walnuts 8390
- seed treatment, aubergines 3251
- soil types, *Urginea maritima* 6291
- storage
 - apples 9215
 - chicory 1304, 7682
 - onions 2140
 - strawberries 7583
- temperature
 - mangoes 4630
 - tomatoes 8685
- water stress, apples 122, 6575
- weeds, tomatoes 6013
- plant nutrition, carrots 6954
- production, books 9113
- requirements, analysis, *Volvariella speciosa* 6079
- responses
 - apples 88-89
 - blackberries 6654
 - chicory 8046
 - Lythrum diandra* 671
 - mushrooms 5146
 - olives 861
 - peas 5974

Carbohydrates *cont.*

- translocation
- celery 555
- culinary herbs 6248
- Vicia faba* 6248
- uptake, apples 1111

Carbon

- isotopes, grapes 4001-4002
- nutrition, *Lentinula edodes* 575
- requirements, analysis, *Volvariella speciosa* 6079
- translocation
- Tipularia discolor* 7069
- Vaccinium* 6666

Carbon dioxide

- control, equipment, greenhouses 1038-1039
- fixation, cabbages 4111
- injuries
 - apples 10155
 - nectarines 7552
 - plums 7552
- measurement, horticultural crops 5577
- metabolism
 - cultivars, apples 3803
 - cultural methods, chrysanthemums 605
 - flooding, *Momordica charantia* 10465
 - photoperiod, *Dendrobium ekapol* 4377
 - plant growth regulators, *Kalanchoe blossfeldiana* 7922
- storage
 - apples 3803
 - avocados 815
 - broccoli 4118
- temperature
 - longans 5422
 - mangoes 5422
- water stress, *Dendrobium ekapol* 4378
- monitoring, equipment, greenhouses 1037
- responses
 - Agave deserti* 7041
 - Agave salmiana* 8108
 - apples 84, 7504, 9217
 - broccoli 4947
 - Capsicum* 2277, 3237
 - carrots 4947
 - cherimoyas 9924
 - cucumbers 4947, 6829
 - Dunaliella tertiolecta* 3544
 - Encelia farinosa* 7041
 - fruit crops 10080
 - Gladiolus* 635
 - grapes 7609
 - greenhouse crops 1037
 - horticultural crops 3736, 7408
 - kiwifruits 221
 - lawns and turf 6142
 - lemons 2613
 - mangoes 5497
 - Mokara* 703
 - mushrooms 2343
 - Opuntia ficus-indica* 5447, 7257, 8108
 - ornamental woody plants 4388
 - peaches 3865, 10222
 - peas 2251, 5965
 - Phaseolus vulgaris* 5051
 - plants 3730
 - reviews 7427
 - raspberries 231
 - roses 7095
 - Schefflera arboricola* 688
 - spinach beets 4063
 - strawberries 244, 257, 9373
 - tomatoes 1462, 3269, 3294, 4234, 4252, 7826, 8659, 8690, 10222
 - Tradescantia* 9748
 - vegetables 9425, 10080
 - treatment, persimmons 9917
 - uptake, *Caladium bicolor* 8822

Carcinogens, responses, *Sandersonia aurantiaca* 4338**Cardamine**

- as weeds
 - apples 1949
 - pears 1949
- Cardamoms** (see *Elettaria cardamomum*)
- Cardaria draba*, as weeds, mandarins 8058

Caribbean

- Hibiscus sabdariffa*, cultural methods 10813

mangoes

- cultivars 9972
- cultural methods 9972
- tropical fruits, surveys 4569

Carica (see also Pawpaws)**Carica pentagona**

- production possibilities
- Ecuador 9869
- South Africa 4566

Carica pubescens

- in vitro* culture
- culture media 9061
- somatic embryogenesis 9061

Carica quercifolia, taxonomy, chemotaxonomy 9990**Carnations**

- cropping systems, rotations 9659
- cultivars, disease resistance 4282, 6088, 6994
- cut flowers
 - cultivars 3382
 - drying 5162
 - pest control 8747
 - preservatives 600, 1535-1536, 3385, 4283-4284, 5167, 5575, 6090, 6092, 7431, 7865, 9650
 - production, cultural methods 3383, 4276, 10613-10614
 - production possibilities, Mauritius 10605
- responses
 - gamma radiation 5168
 - plant growth regulators 7859
- senescence 1534, 4283-4284, 6090, 7864
- storage 600, 7502
- vase life 600, 4284, 5167, 9650, 9660
- water relations 3385

cuttings

- sources, cultural methods 4281
- storage 6993
- treatment 6993

disease control

- Alternaria dianthi* 6994
- Fusarium oxysporum* f.sp. *dianthi* 2379-2380, 4282, 10615
- Gibberella avenacea* 5165-5166

fertilizers, boron 8746**flowers**

- physiology 6091
- senescence 1535-1536, 7863

in vitro culture

- containers 10616
- culture media 2378, 7861, 10612
- disorders, vitrification 596, 2378
- organogenesis 7862
- propagation
 - micropropagation 597, 6089

techniques 1533**somatic embryogenesis** 1533**insecticides****injuries** 8747**residues** 599**nutrients**, requirements, analysis 598**nutritive value** 1537**pest control**

- Frankliniella occidentalis* 8747
- Thysanoptera 6995

plant growth regulators, ethylene, physiology 7428, 9658**plant nutrition**, boron 8746**products**, feeds 599, 1537, 7866**propagation**, techniques 1531**protected cultivation****cultivars** 3382**mulching** 10613-10614**plant nutrition** 598**shading** 10613-10614**roots**, development, *in vitro* culture**10612****seedlings****production**, cultural methods 3380**storage** 3380**seeds**, production, cultural methods 9659**soilless culture****growing media** 3383, 9657**nutrient solutions**, pH 3384**Carnivorous plants**, plant, composition**2391****Carobs**

- cotyledons
 - biochemistry 4489
 - physiology 7193
- flowers, development, phenology 7194
- fruits, development, phenology 7194
- photosynthesis, physiology 7193
- plant nutrition, nitrogen 3581
- plant residues, utilization, growing media 3399
- plant water relations, irrigation 1711
- seedlings
 - development, biochemistry 10821
 - physiology 7193
- seeds, treatment 10821

Carotenes**composition**

- lettuces 4083
- loquats 8979
- melons 10937
- persimmons 4561
- metabolism**
 - light, algae 776-777
 - plant nutrition, cucumbers 8568-8569
 - ripening, tomatoes 9617
 - salinity, algae 776-777
 - seasonal variation, lettuces 372
 - storage, tomatoes 544
 - temperature, spinach 3107

Carotenoids**biochemistry***Ficus microcarpa* 10689*Phlomis fruticosa* 5289**biosynthesis***Capsicum* 1421, 8636*Narcissus pseudonarcissus* 4329**characterization**, *Bixa orellana* 5305**composition***Aloe arborescens* 10774*Aloe barbadensis* 10774*Aloe saponaria* 10774*Bixa orellana* 5306

carrots 554

Citrus 10834

fruit crops 1916

Hedera helix 7952*Laurus nobilis* 7952

loquats 8979

pawpaws 9993

tea 7368

vegetables 1916

determination*Acer negundo* 4243

tomatoes 4243

tropical fruits 6371

extraction, *Ficus microcarpa* 7970**metabolism****biochemistry**, oranges 7216

cadmium, cucumbers 5910

cultivars

carrots 1480

Dendrobium 3460**development**, *Ziziphus spina-christi***3693****fertilizers**, pawpaws 7345

fluorine, peas 10503

growing media, tomatoes 10547**harvesting date**, carrots 1480**herbicides**, *Capsicum* 4193**light**

algae 776-777

chrysanthemums 3394

Dendrobium 3460*Digitalis purpurea* 6280*Ficus microcarpa* 2500*Haematococcus pluvialis* 5351

horticultural crops 4695

ornamental woody plants 708-709

spinach 708

maturity, *Lagenaria siceraria* 5036mycorrhizas, *Ziziphus mauritiana***5518****photoinhibition**, spinach 7678**physiology**, *Vicia faba* 433**plant growth regulators***Centaurea cyanus* 4290

cucumbers 5910

Pelargonium hortorum 4290

Carotenoids cont.

- metabolism cont.
- plant nutrition
 - lawns and turf 10670
 - peaches 5658
- pruning, plums 9321
- ripening
 - Capsicum* 8636, 10531
 - mandarins 840
 - mangoes 1835
 - oranges 838
 - pawpaws 9993
 - tomatoes 9617
- salinity, algae 776-777
- seasonal variation
 - carrots 1480
 - Leonurus quinquelobatus* 766
 - tea 2762
 - tomatoes 6921
 - Valeriana officinalis* 766
- storage
 - apples 139, 1119
 - carrots 8709
- temperature, *Dendrobium* 3460
- ultraviolet radiation, cucumbers 8583
- production
 - cultural methods, *Tagetes patula* 6256
 - in vitro* culture, *Haematococcus pluvialis* 1703
- ultrastructure
 - Hypericum calycinum* 3506
 - Hypericum perforatum* 3506
- Carpinus orientalis*, pot plants, bonsai 5260
- Carpomyia vesuviana*, *Ziziphus mauritiana* 2772, 8169
- Carposina sasakii*
 - apples 120, 2891
 - temperate fruits 67
- Carrots**
 - allelopathy 1266
 - bolting, cultivars 7839
 - conferences 5542
 - cropping systems, rotations 5134, 6955
 - cultivars
 - assessment
 - Brazil 7405
 - Germany 3318
 - India 10576
 - bolting 7839
 - characteristics, Russia 3312
 - disease resistance 3311, 6952, 9430
 - identification 2320
 - quality 6042
 - disease control
 - Alternaria dauci* 8705
 - Pythium* 9430
 - fertilizers
 - boron 4948
 - molybdenum 4948
 - nitrogen 4943, 4948, 6956, 7840, 8703, 9620
 - phosphorus 5135
 - potassium 4944, 4948, 5135, 6956, 8703
 - flowers
 - development
 - photoperiod 7838, 10579
 - plant growth regulators 7838
 - temperature 10579
 - fungicides, responses 5136
 - handling, techniques, Vietnam 4702
 - herbicides
 - responses 6957
 - tolerance 8500
 - in vitro* culture
 - biochemistry 1485, 2326-2327, 4255, 5142, 6047, 6957-6958, 9621
 - cell suspensions 5140, 6049, 6274, 7835
 - culture media 9420
 - metabolites, production 54
 - plant nutrition 6954, 7835
 - responses
 - coumarins 7837
 - phytoalexins 7837
 - temperature 4255
 - somatic embryogenesis 552, 2325, 5141, 6043, 6048, 6953-6954, 9619
 - storage 2698

Carrots cont.

- in vitro* culture cont.
- symbiosis, *Azotobacter zettuvii* 6045
- insecticides, residues 2323
- irrigation, water, sources 2111
- mechanically induced stress, responses 1484
- mycorrhizas 10578
- nutritive value 1916, 7653
- organic culture 3313
- pest control
 - Listronotus oregonensis* 1483
 - Meloidogyne hapla* 551, 6955
 - Psila rosae* 2322, 3315, 4254, 8707
 - Trioza apicalis* 4254
- pesticides, residues 7421
- photoperiodism 2324
- plant
 - composition 1482
 - development
 - carbon dioxide 9425
 - temperature 9425
- plant embryos
 - biochemistry 6050
 - germination, *in vitro* culture 2325
- plant extracts, application, *Lentinula edodes* 8733
- plant growth regulators
 - abscisic acid, metabolism 2324
 - alcohols, responses 1031
 - cytokinins, metabolism 2324
- plant nutrition
 - nitrogen 4942, 7836
 - phosphorus 4942
 - potassium 4942
- planting
 - site preparation 9421
 - spacing 5135, 7840
 - systems 7833
- pollination, pollinators, Diptera 9622
- pollution
 - acid rain 9422
 - heavy metals 550
 - industrial wastes 7644, 9439
 - lead 361
 - polychlorinated biphenyls 6729
- production
 - Colombia 10358
 - USA 4934
- production possibilities, Taiwan 9415
- products, pigments 7675
- protected cultivation, systems, row covers 318
- protoplasts
 - biochemistry 3316
 - physiology, *in vitro* culture 3317
 - ultrastructure 6046
- reports, Belgium 1016, 1886, 10055
- research
 - climate 1262
 - experimental plots 5133
 - Netherlands 8201
- respiration, carbon dioxide 4947
- roots
 - biochemistry 5137-5139, 10578
 - soil pH 8702
- composition 554, 3318, 6582
- mechanical properties
 - measurement 8698
- plant water relations 553
- storage 10580
- temperature 553
- physiology 1484, 5837, 8704
- quality
 - analysis 554
 - cultivars 1480, 6042
 - harvesting date 1480
 - measurement 9157
 - seasonal variation 1480
 - storage 8709
- salinity, responses 8704
- seedlings, emergence, soil structure 1269
- seeds
 - biochemistry 552
 - composition 1265, 3521
 - germination
 - cultivars 8700
 - physiology 1481, 9417
 - seed treatment 5132, 9417
 - temperature 5132, 8700
 - tests 8700

Carrots cont.

- seeds cont.
- production
 - assessment 8708
 - cultural methods 328, 7840
 - quality, pollination 1481
- sowing
 - equipment 6726
 - spacing 10577
- soil amendments 361, 10468
- soil pH, responses 8702
- soil solarization 1267
- soil types 1486
- soilless culture, systems, hydroponics 3073
- storage
 - biochemistry 7841
 - diseases 1486, 5136
 - humidity 8502
 - losses 9623
 - physiology 10079
 - precooling 9623
 - quality, soil types 1486
 - systems, controlled atmosphere storage 10079
 - treatment 6743
- translocation, source sink relations 8184
- transpiration, storage 10580
- weed control 1035, 1267, 2321, 3314, 6044, 6955, 7834, 8701
- Carthamus tinctorius***
 - cultivars, characteristics, Czech Republic 3407
 - flowers
 - colour, assessment 8000
 - composition 6252, 8895
- Carum carvi***
 - disease control
 - Mycocentrospora acerina* 1673
 - Netherlands 1673
 - Sclerotinia sclerotiorum* 1673
 - in vitro* culture, propagation, micropropagation 1662
 - production possibilities, Netherlands 8901
 - salinity, responses 10746
 - seedlings, biochemistry, salinity 10746
 - seeds, composition 3521
- Carum copticum*** (see *Trachyspermum ammi*)
- Carya*** (see also *Pecans*)
- Carya aquatica***, as rootstocks, pecans 5680
- Carya lecontei***, as rootstocks, pecans 5680
- Caryobrychus chiriquensis***, *Phytelephas aequatorialis* 3558
- Caryocar brasiliense***, wild plants, utilization, Brazil 971
- Caryopteris clandonensis***, irrigation, systems 5281
- Cashews**
 - air layering, responses 10913
 - altitude, responses 1790
 - books 6471
 - climate, requirements 1790
 - cultivars
 - assessment, India 4590
 - characteristics, India 7279
 - composition 1788
 - pest resistance 1788
 - plant nutrition 1794
 - disease control, *Oidium anacardii* 5466
 - drought, responses 1790
 - fertilizers
 - nitrogen 1793, 2680, 9940, 9942-9943, 10913
 - phosphorus 1793, 2680, 9940, 9942-9944, 10913
 - potassium 1793, 2680, 9940, 9942-9943, 10913
 - flowers
 - development, assessment 3653
 - sex
 - cultivars 7283
 - temperature 7283
 - frost, injuries 4588
 - fruits
 - drop, irrigation 1792
 - quality
 - fertilizers 9940
 - plant growth regulators 9940
 - set
 - assessment 6387, 8130
 - cultivars 10914

- Cashews** *cont.*
 fruits *cont.*
 set *cont.*
 irrigation 1792
 grafting
 scions, assessment 8128
 seasons 1789
 handling, equipment 889
 humidity, responses 1790
in vitro culture, propagation, micropropagation 8129
 irrigation
 frequency 1792
 responses 1792
 latitude, responses 1790
 leaves
 areas, assessment 5467
 development, assessment 5467
 nutrients, uptake, seasonal variation 6385
 pest control
 Holotrichia serrata 7280
 Placaederus ferrugineus 5465
 pests, surveys, Côte d'Ivoire 4571
 photosynthesis, cultivars 4589
 plant, height, assessment 7281
 plant growth regulators
 chlormequat, responses 5464
 2,4-D, responses 9942
 ethephon, responses 5464, 9942
 NAA, responses 9942
 TIBA, responses 5464
 plant residues, utilization, growing media 4266
 plant training, responses 9941
 planting, spacing 8131
 pollination, biology 9016
 pollution, sulfur dioxide 9015
 production
 Brazil 6488
 India 5463
 products, pectins 1774
 pruning, responses 5464, 9941
 reports, Australia 8189
 roots, development, assessment 6386
 rootstocks, selection 9014
 shoots, development, biochemistry 7282
 topworking 1791
 water stress, measurement 10817
 waterlogging, responses 1790
 wind, responses 1790
- Casimiroa edulis**, production possibilities, USA 5448
- Cassia**, nutritive value 1916
- Cassia obtusifolia**, cultivars, characteristics, Korea Republic 10782
- Cassia rotundifolia**, as cover crops, temperate fruits 5585
- Cassia senna**
 plant nutrition
 aluminium 8027
 cobalt 8027
 iron 8027
 manganese 8027
 nickel 8027
 silicon 8027
- Cassia siamea**, mycorrhizas 3540
- Cassia spectabilis**, seeds, composition 6214
- Castanea** (*see also* Chestnuts)
 flowers, thinning, responses 8340
 rootstock scion relationships, compatibility 10198
- Castanea crenata**
 nuts
 development, histology 2939
 mechanical properties, assessment 2939
 storage
 biochemistry 4819
 systems, cold storage 4819
- Castanea dentata**, planting stock, production, cultural methods 6185
- Castanea mollissima**
 cultivars, characteristics, China 5642-5643, 8339, 10197
 mycorrhizas 3821
 nuts
 development, histology 2939
 mechanical properties, assessment 2939
 plant, composition 167
 storage, treatment 1995
- Cataenococcus hispidus**, control, of *Helopeltis theivora*, cocoa 2682
- Catharanthus roseus**
 cytology 6276
 disease control, *Phytophthora nicotianae* var. *parasitica* 6990
 herbicides, injuries 8745
in vitro culture
 biochemistry 1527, 2539, 3541, 7160, 8912, 8914
 cell suspensions 2539, 4412, 4456, 8912
 culture media 762
 explants, sources 762
 organogenesis 7161
 propagation, micropropagation 761
 storage 6278
 leaves
 biochemistry 4456, 8913
 vascular system 9153
 plant, biochemistry 4413
 plant growth regulators, brassinosteroids, biosynthesis 7160
 seedlings
 biochemistry 6277
 development, biochemistry 8025
 seeds
 germination
 age 2540
 seed treatment 6215
 temperature 6215
 soil amendments 10610
 soilless culture
 growing media 3542
 nutrient solutions, composition 3542
- Cattleya**
 breeding, intergeneric hybridization 1599
 taxonomy, nomenclature 998, 7056
- Cattleya walkeriana**, flowers, colour, biochemistry 4381
- Cattleyopsis**, books 7392
- Caularthron bicornutum**, breeding, intergeneric hybridization 1599
- Cauliflowers**
 allelopathy 1266
 cultivars
 assessment
 Belgium 1321, 7697-7698
 Denmark 5856
 USA 7699
 characteristics, China 1322
 identification 5859
 curds
 biochemistry 2187, 5875, 6795
 development, plant growth regulators 10436
 disease control, *Xanthomonas campestris* pv. *campestris* 10448
 disorders, chlorosis 5005
 fertilizers
 boron 4096, 10444
 copper 4691
 iodine 9478
 manganese 6738
 molybdenum 382-383, 4096, 9478, 9480
 nitrogen 377, 381, 4096, 4098, 6789, 7706, 8498, 10362, 10435
 phosphorus 10362, 10444
 potassium 4944, 10362
 rare earth elements 5868
 sulfur 382, 10446
 vanadium 9478
 zinc 381, 4691
 flowers, development, *in vitro* culture 8545
 fruits, development, *in vitro* culture 8545
 hail, injuries 315
in vitro culture
 culture media 9420, 10427
 explants, sources 10427
 organogenesis 3137, 10427
 propagation, micropropagation 3137
 irrigation
 frequency 10435
 requirements
 determination 6733
 reviews 10361
 responses 6789
 mulching, responses 377
- Cauliflowers** *cont.*
 pest control
 Brevicoryne brassicae 3079
 Delia radicum 3079
 Lepidoptera 3079
 Spodoptera litura 4104
 plant
 biochemistry 6958
 development
 carbon dioxide 9425
 cultural methods 321
 temperature 9425
 plant nutrition
 iron 5005
 nitrogen 3143, 4098, 7704
 phosphorus 3143
 zinc 3143, 7704
 production
 climatic change 5861
 USA 4934
 reports, Belgium 1884, 1888, 9127
 research
 climate 1262
 Netherlands 8201
 seeds
 biochemistry 4115
 composition 5859
 production
 cultural methods 4116
 diseases 10447
 treatment 1344, 10448
 vigour, biochemistry 1344
 soil amendments 383, 1330, 8497
 soilless culture
 nutrient solutions, composition 7703
 systems, hydroponics 3073
 storage
 physiology 10079
 systems, controlled atmosphere storage 10079
 translocation
 diurnal variation 4112
 physiology 10506
 transpiration, determination 6739
 weed control 377
 yields
 correlation 3151
 diseases 10447
- Ceanothus pallidus**, plant, characteristics 1641
- Cecidophyopsis ribis**, black currants 7567
- Cedrela odorata**, as shade plants, coffee 3659
- Celeriac**
 bolting, physiology 1491
 flowers, development, photoperiod 1491
 plant, biochemistry 3320
 planting, planting date 7842
 reports, Belgium 1885, 5547
 seeds
 production, cultural methods 7842
 sowing, sowing date 7842
- Celery**
 allelopathy 1308
 bolting, light 8712
 cultivars
 assessment
 China 6051
 USA 2328
 characteristics, USA 6959
 disease resistance 6959
 identification 5855
 economics, Argentina 3723
 fertilizers, nitrogen 8711
 herbicides, tolerance 8500
in vitro culture
 biochemistry 556
 cell suspensions 3320
 irrigation, requirements, determination 6326
 leaves, biochemistry, plant growth regulators 10581
 nutrients, uptake, assessment 8710
 pest control
 Liriomyza huidobrensis 1487
 Trialeurodes vaporariorum 10367
 plant
 colour, assessment 5855
 composition 4256
 plant residues, utilization, fodder 2119
 production, USA 4934

Celery *cont.*

- protected cultivation, cultivars 6051
- reports, Belgium 1885, 5547
- salinity, responses 1488
- seedlings
 - production
 - cultural methods 905
 - energy requirements 6498
 - labour requirements 6498
 - treatment 8712
- seeds
 - composition 3521
 - germination
 - light 3319
 - plant growth regulators 3319
 - tests 2329
 - production, cultural methods 5143
- soil amendments 8497
- stecklings, production 5143
- storage
 - biochemistry 1490
 - diseases 1489-1490
- translocation, physiology 555
- vascular system 6960
- water stress, physiology 1488

Cell membranes

- active transport
 - apples 1111
 - cauliflowers 5875
 - celery 555
 - peas 9538
 - Vicia faba* 6854
- biochemistry
 - Capsicum* 482
 - Cucurbita* 415
 - Cucurbita pepo* 5923, 6827
 - leeks 3087
 - Mesembryanthemum crystallinum* 6162
 - pears 1167
 - peas 8615
 - radishes 2191, 6802
 - Rosa damascena* 6206
 - roses 3501
 - vegetables 3070
- composition
 - beetroots 2142
 - spinach 5841
- heat, cabbages 10452
- ion transport
 - Agapanthus africanus* 3403
 - beetroots 4054, 5836
 - cucumbers 1366, 4131, 5907
 - Mesembryanthemum crystallinum* 4365
 - Vicia faba* 1384, 3206, 4168, 5957
- physiology
 - beetroots 2143, 5836
 - cauliflowers 10506
 - cherries 4817
 - Chinese cabbages 5873
 - cucumbers 5896
 - Cucurbita maxima* 10364
 - Eranthis hyemalis* 2411
 - horticultural crops 9153
 - reviews 3731
 - Leucadendron* 2508
 - melons 5491
 - peaches 4835
 - peas 2250, 5972, 10364, 10506
 - Peperomia metallica* 686
 - Phaseolus vulgaris* 6851, 10364
 - Pyrus bretschneideri* 3894
 - tomatoes 3293, 6935
 - Tradescantia virginiana* 2434
- ripening, tomatoes 2317
- ultrastructure, *Mimosa pudica* 2511

Cell walls

- biochemistry
 - apples 135, 142-143, 8306
 - blackberries 8406
 - celery 4256
 - grapes 296, 310
 - kiwifruits 218, 3915
 - peaches 178
 - pears 4844
 - Phaseolus vulgaris* 4161, 5946
 - radishes 6804
 - tomatoes 4247, 6940, 10571
- composition
 - Angelica dahurica* 6274

Cell walls *cont.*

- composition *cont.*
 - apples 135, 4788, 4805, 6579
 - carrots 10578
 - figs 8345
 - mangoes 923
 - melons 9968
 - nectarines 2007
 - peas 5058
 - Phaseolus vulgaris* 2239
 - pineapples 2737
 - roses 5275
 - vegetables 5775
 - in vitro* culture, blackberries 6655
 - physiology
 - apples 133, 1985
 - cucumbers, reviews 2210
 - nectarines 2009
 - pawpaws 2733
 - persimmons 5436
 - Phaseolus vulgaris* 426, 6852
 - tomatoes 3296
 - ultrastructure
 - apples 133
 - cherries 7520
 - hyacinths 4321
 - tomatoes 1469
- Cells** (*see* Cytology)
- Celosia argentea**
- as weeds, okras 2270
 - soil amendments 10610
- Celosia argentea** *var. plumosa*
- cut flowers, production, cultural methods 1550
 - herbicides, tolerance 2377
 - pinching, responses 1550
 - weed control 2377
- Centaurea cyanus**, plant growth regulators, methanol, responses 4290
- Centaurea rothrockii**, cultural methods, UK 3408
- Centella asiatica**
- plant, anatomy 2541
 - reviews 6052
- Centipede grass** (*see* *Eremochloa ophiuroides*)
- Central America**
- coffee, rootstocks 5475
 - mushrooms, production 2335
 - Opuntia*, utilization 7256
 - tropical fruits, surveys 4569
- Centranthus ruber**, flowers, development, anatomy 7975
- Cephalonomia stephanoderis**, control, of *Hypothenemus hampei*, coffee 10929
- Cephalotaxus harringtonia**, cuttings, rooting, seasonal variation 7077
- Cerastium tomentosum**
- irrigation, requirements, determination 6152
 - utilization, ground cover plants 6152
- Ceratitis capitata**
- carambolas 970
 - Citrus 2603
 - clementines 1730
 - pawpaws 932
 - peaches 3864
- Ceratitis cosyra**, mangoes 8148
- Ceratitis rosa**, Citrus 2603
- Ceratocystis paradoxa**, coconuts 8133
- Ceratonia** (*see also* Carobs)
- Ceratopetalum**, cultivars, characteristics, Australia 9642
- Ceratorhiza**
- mycorrhizas
 - Dactylorhiza* 2436
 - Microtis parviflora* 702
 - Orchis morio* 2436
- Ceratostema charianthum**, ornamental value 8868
- Ceratostema ferreyrae**, ornamental value 8868
- Cercidium praecox**, planting stock, production, containers 3467
- Cercis canadensis**, herbicides, injuries 2472
- Cercospora**, aubergines 4197
- Cercospora carotae**, carrots 8706
- Cercospora rubi**, blackberries 3919
- Cereus kroenleinii**, taxonomy, nomenclature 6157
- Cereus peruvianus**, plant, composition 8823

Cereus triangularis (*see* *Hylocereus undatus*)

Ceriops decandra, products, beverages 1694

Cerium

- fertilizers, vegetables 5868
 - responses, cucumbers 10471
- Ceroplastes rubens**, Citrus 3598
- Ceroplastes rusci**, oranges 1728
- Ceroxylon**, reviews 2492
- Ceroxylon quindiuense**, reviews 2492
- Chad**, onions, production 5800
- Chaenomeles japonica**, *in vitro* culture, propagation, micropropagation 5696
- Chaetomium**, weed moulds, *Lentinula edodes* 8731
- Chaetosiphon fragaefolii**, strawberries 1211
- Chalk**, utilization, soil amendments, tomatoes 8672
- Chamaecereus silvestrii**, plant, composition 9737
- Chamaecyparis lawsoniana**
- fertilizers
 - nitrogen 2479
 - phosphorus 2479
- Chamaecyparis pisifera**
- fertilizers 7950
 - plant water relations, assessment 2475
 - planting stock
 - production
 - containers 7950
 - cultural methods 3466
- Chamaecytisus** (*see* *Cytisus*)
- Chamaedorea**, conservation, Mexico 2493
- Chamaedorea elegans**
- seeds
 - germination
 - moisture content 5233
 - temperature 5233
- Chamaedorea microspadix**
- seeds
 - germination
 - moisture content 5233
 - temperature 5233
- Chamaedorea radicalis**
- seeds
 - germination
 - moisture content 5233
 - temperature 5233
- Chamaedorea seifrizii**
- propagation, techniques 2430
- Chamaedorea seeds**
- germination
 - moisture content 5233
 - temperature 5233
- Chamaemelum mixtum**, as weeds, *Asparagus* 7763
- Chamaerops humilis**, pot plants, production, cultural methods 8831
- Chamelaucium**
- cultivars, characteristics, Australia 9642
 - cut flowers, production, cultural methods 4276
- Chamelaucium floriferum** × **Chamelaucium uncinatum**
- cut flowers
 - production, cultural methods 8869
 - quality, fertilizers 8870
- Chamelaucium uncinatum**
- cut flowers
 - production
 - cultural methods 1642, 8869
 - Israel 4302
 - quality, fertilizers 8870
 - senescence 10730
 - storage 1643
 - transport 1643
 - vase life 8871-8872
 - cuttings
 - rooting
 - carbon dioxide 4388
 - temperature 1616
 - sources, cultural methods 1616
 - treatment 1616
 - fertilizers
 - nitrogen 8869-8870
 - potassium 8869-8870
 - flowers, development, biochemistry 10730
 - insecticides, responses 8872
 - irrigation, responses 1642, 2494
 - mutants, morphology 7107

- Chamelaucium uncinatum** *cont.*
nectar 10731
nectaries 2495, 10731
plant water relations, physiology 2494
- Chamomile** (see *Chamomilla recutita*)
- Chamomilla recutita**
cultivars, characteristics, Brazil 8006
flowers
 biochemistry, seasonal variation 7162
 composition 8026
harvesting, harvesting date, assessment 7162, 8026
- Charcoal**
utilization
 amendments, *Lentinula edodes* 8732
 growing media
 Dendrobium 1606
 Dendrobium nanum 2439
 Diplocentrum recurvum 2439
 Eria pauciflora 2439
 Phalaenopsis 1606
 soil amendments, Welsh onions 3101
- Cheiradenia**, taxonomy, nomenclature 7056
- Chelidonium majus**, taxonomy, chemotaxonomy 2536
- Chelonistele laetitia-reginae**, taxonomy, new taxa 9760
- Chenopodium**
as weeds, lettuces 5851
species, identification 8204
- Chenopodium album** 7702
as weeds
 almonds 2850
 Asparagus 7763
 broccoli 1326
 cabbages 1325, 7702, 9475
 okras 2270
 onions 9442
 Pimpinella anisum 1675
 vegetables 320
- Chenopodium ambrosioides**
plant
 anatomy 8205
 morphology 8204
- Chenopodium ficifolium**
plant
 anatomy 8205
 morphology 8204
- Chenopodium glaucum**, as weeds, carrots 7834
- Chenopodium murale**, as weeds, onions 5820
- Chenopodium rubrum**
plant
 anatomy 8205
 morphology 8204
- Cherimoyas**
anthers, development, morphology 8998
cultivars, identification 2669
flowers, development, physiology 8998
fruits
 biochemistry 8999
 development, pollination 7264
 quality, pollination 7264
pollination
 biology 3638
 research 7264
 techniques 10908
production possibilities, Argentina 5357
storage
 biochemistry 8109
 systems, controlled atmosphere storage 9924
 temperature 8109
- Cherries**
books 2794
buds, dormancy, photoperiod 8333
cultivars
 assessment
 Belarus 3740
 Canada 6597
 Germany 2930
 Switzerland 3814, 5638
 characteristics
 Australia 3816
 books 989
 Canada 9265
 France 4811, 8327, 9265
 Hungary 10188
 Iran 8327
 Russia 4810
- Cherries** *cont.*
cultivars *cont.*
 characteristics *cont.*
 USA 3816, 9265
 Yugoslavia 2931
 pest resistance 3815
cultural methods
 Denmark 7517
 Switzerland 4711
cuttings, cultural methods 4862
disease control
 bacteria 3750
 Glomerella cingulata 6600
 Italy 9163
 Monilinia fructigena 6600
 Switzerland 3748, 3751
 USA 7446, 9267
 Venturia cerasi 6600
 western X-disease 2936
diseases, books 995
disorders
 books 995
 decline 3819
establishment, meadows 5584
fertilizers 6187
 magnesium 2934
 nitrogen 1135, 2933-2934
 phosphorus 1135, 2934, 3818
 potassium 1135, 2934, 3818, 6599
frost
 injuries 10085
 resistance
 assessment 7518, 8328
 cultivars 2930
fruits
 abnormal development 10192
 aroma, storage 7524
 biochemistry 2849
 bruising
 handling 7522
 temperature 7523
 colour, determination 165, 10194
 cracking
 assessment 4791
 physiology 1136
 plant water relations 2937
 protected cultivation 2938
 reviews 1136
 rootstock scion relationships 2938
 cytology 7520
 development
 models 72
 plant growth regulators 10193
 pollination 10193
 flavour, storage 7524
 mechanical properties
 biochemistry 7520
 measurement 6603
 position, assessment 8337
 quality
 assessment 9270, 10264
 cultivars 6597
 fertilizers 3818
 harvesting date 8336
 measurement 9157
 plant growth regulators 8336
 plant nutrition 4817
 ripening, storage 7524
growth retardation, plant growth regulators 7519
handling
 economics 166
 injuries 7522-7523
 techniques 7521
harvesting
 equipment 8338
 harvesting date, assessment 10194
 techniques, mechanical harvesting 6602
herbicides, injuries 161
high density planting, cultivars 5637
hybrids, *in vitro* culture 4815
in vitro culture
 callus, growth 10089
 culture media 4815
 organogenesis 4815, 10190
 plant embryos 4815
 propagation, micropropagation 1992
 techniques 4814
irrigation, fertigation 6599
leaves, composition 1134
- Cherries** *cont.*
marketing, Norway 166
mycorrhizas 1132
nutrients
 requirements, assessment 1134
 uptake, rootstock scion relationships 4812
packing, techniques 7521
pest control
 Acari 1993
 Myzus cerasi 5640
 Rhagoletis cerasi 3820
 Switzerland 3748
 USA 1921, 7446, 9267
 voles 6601
pesticides, residues 7421
photosynthesis, physiology 8333
plant
 biochemistry 70
 height, fruiting 8337
 plant growth regulators, gibberellins, composition 8335
 plant nutrition
 aluminium 3819
 calcium 4817
 copper 2935
 iron 2935
 manganese 2935
 zinc 2935
 plant training, systems 3747, 3817, 4816, 5638, 8331
 plant water relations, measurement 9268
 planting
 spacing 5637, 8330
 systems 9162
 planting stock, establishment 2932
 pollen, tubes, development 8334
 pollination, pollinators, Apidae 8236-8237
 pollution
 dusts 8262
 tolerance 7441
 production, Belgium 5636
 protected cultivation, pest control 6601
 pruning, systems, root pruning 10191
 respiration, storage 10074
 roots, physiology 9268
 rootstock scion relationships
 flowering 78
 fruiting 78
 growth 78, 1991, 6598, 9266, 10189
 plant nutrition 2933, 4812
 yields 1991, 2934, 6598, 9266, 10189
 rootstocks
 assessment
 Germany 1990, 8328
 UK 3744
 characteristics 4813
 France 8329
 propagation, *in vitro* culture 2932
 seedlings, development, physiology 8333
 seeds, composition 8335
 shoots, development, assessment 163
 soil amendments 2888
 soil types 162, 5639, 8332
 soil water, responses 8332
 storage
 physiology 10074
 precooling 5641
 systems
 controlled atmosphere storage 7524
 modified atmosphere storage 9269
 temperature 7521
 transport, temperature 7521
- Chervil** (see *Anthriscus cerefolium*)
- Chestnuts**
books 6469
cropping systems, intercropping 1030
cultivars
 flowering date 3822
 identification 6604-6605
disease control, *Cryphonectria parasitica* 168
flowers, development, anatomy 1138
grafting, unions, treatment 1994, 10199
harvesting
 injuries 3823
 techniques, mechanical harvesting 3823, 5588
pest control, *Dryocosmus kuriphilus* 6606

Chestnuts *cont.*

- production
 - Europe 1137
 - Spain 10196
 - USA 10195
- regeneration, topworking 1994
- research, Europe 1137
- seeds, development, embryology 1138
- storage, biochemistry 6607
- taxonomy
 - chemotaxonomy 6605
 - morphology 6604

Chicory

- bolting, sowing date 1301
- cultivars
 - assessment
 - Germany 8527
 - India 10406
 - Italy 4069
- cultural methods, Italy 355
- disease control, *Erwinia chrysanthemi* 9456
- disorders
 - brown core 8527
 - chilling injury 4982
 - hollow core 8527
 - reviews 2155
- flowers
 - development
 - physiology 10407
 - temperature 4981
 - initiation, forcing 3123
- forcing 3123, 4068, 7682
- herbicides, tolerance 358, 2154
- in vitro* culture
 - biochemistry 359, 1302
 - callus, growth 8046
 - responses, light 5845
 - somatic embryogenesis 2153
- plant, development, physiology 10407
- plant growth regulators, ethylene, metabolism 6776
- plant nutrition, nitrogen 5844
- production, Netherlands 8526
- protected cultivation, systems, row covers 356
- reports, Belgium 1888
- roots
 - biochemistry 9457
 - composition 2156, 4983
 - development, biochemistry 1304
 - storage, biochemistry 1304, 7682
- seeds, sowing, sowing date 1301
- soil fumigation 357
- weed control 357

Chicory × endives

- in vitro* culture
 - cytology 360
 - responses, alkaloids 4980
 - somatic embryogenesis 1303, 4980

Chile

- Ericaceae, surveys 6510
- fruit crops
 - pest control 285
 - pests, surveys 6516
- grapes, production 7593
- horticultural crops, economics 4675
- pecans, cultivars 7542

Chilling requirement

- apples 4783, 10129
- apricots 9233
- Eustoma* 612
- onions 6759
- peaches 10215
- pears × quinces 3889
- Pyrus* 3889
- Pyrus pyrifolia* 1166, 8361
- quinces 3889
- strawberries 6671, 9364
- Vaccinium ashei* 8418
- Vaccinium corymbosum* 8418

Chilocorus nigrita

- control
 - of *Aonidiella citrina*
 - clementines 1734
 - oranges 1734

Chiloglottis diphylla, pollination, pollinators, *Neozeleboria* 7933**Chiloglottis formicifera**, pollination, pollinators, *Neozeleboria* 7933**Chiloglottis platyptera**, pollination, pollinators, *Neozeleboria* 7933**Chiloglottis pluricallata**, pollination, pollinators, *Neozeleboria* 7933**Chiloglottis reflexa**, pollination, pollinators, *Neozeleboria* 7933**Chiloglottis seminuda**, pollination, pollinators, *Neozeleboria* 7933**Chiloglottis trilabra**, pollination, pollinators, *Neozeleboria* 7933**Chiloglottis valida**, pollination, pollinators, *Neozeleboria* 7933**Chimaeras**

- blackberries 6653
- Citrus* 8939

Chimonanthus, ornamental value 6180**Chimonanthus praecox**, flowers, anatomy 4414**China**

- Abelmoschus moschatus*, cultural methods 8900
- Actinidia arguta*, cultivars 1184
- Allium*, production 5810
- apples
 - cultivars 1063, 1927, 2854, 3764, 8245, 9170-9171, 9174-9175, 10097
 - cultural methods 10112
 - disease control 1084
- apricots, cultivars 10171
- Arbutus*, cultivars 5695
- bananas
 - cultural methods 4584
 - production 9926
- blackberries, cultivars 3005, 5703
- Boehmeria nivea*, cultural methods 1696
- cabbages, cultivars 1323
- Capsicum*, cultivars 1411, 3233-3234
- Castanea mollissima*, cultivars 5642-5643, 8339, 10197
- cauliflowers, cultivars 1322
- celery, cultivars 6051
- Citrus*
 - climate 7199
 - cultivars 10822
 - disease control 827, 1725
 - pest control 827, 1725
- Crataegus*, cultivars 9331
- Crataegus pinnatifida*, production possibilities 8393
- cucumbers
 - cultivars 1348-1350, 3163
 - production 1347
- edible fungi, surveys 6971
- Eremochloa ophiuroides*, cultural methods 4345
- Eucommia ulmoides*
 - climate 2554
 - production 2553
- fruit crops
 - books 1000
 - coastal areas 10061
 - research 1914
- garlic, utilization 4020
- Ginkgo biloba*, cultural methods 10734
- grapes
 - climate 3961
 - cultivars 3030, 5748, 5750, 8449
 - production 8432
- Haemanthus multiflorus*, cultural methods 1573
- Hippeastrum*, cultural methods 1574
- kiwifruits
 - cultivars 4864-4866, 9333
 - species 4864
- kumquats, production 4490
- lawns and turf
 - climate 4355
 - cultural methods 4345
 - species 664
- Litchi*
 - cultivars 7233, 8972
 - production 2632
- longans, cultivars 9903
- mandarins, cultivars 1712, 9873
- mangoes
 - cultivars 9053
 - plant nutrition, surveys 1826
- medicinal plants
 - books 1000
 - cultural methods 7155

China *cont.*

- melons, cultivars 9038
- Momordica charantia*, cultivars 3164
- mulberries
 - disease control 172
 - pest control 172
- mushrooms, cultivars 6974
- nectarines, cultivars 4824, 5652, 10207
- onions
 - disease control 1290
 - pest control 1290
- oranges, cultivars 4494, 8940
- ornamental plants, books 999
- peaches, cultivars 1145, 4825, 9283-9284, 10208
- pears, cultivars 10227
- peas, cultivars 3210
- persimmons
 - cultivars 869
 - cultural methods 4557
 - production 10891
- plants, products, research 9813
- plums, cultivars 4852, 8379, 10250
- Poa pratensis*, cultural methods 4345
- pomegranates, cultivars 2658
- Prunus mume*, breeding, genetic resources 5293
- pummelos, cultivars 4495
- Pyrus pyrifolia*, cultivars 5673-5674, 8359, 10228
- satsumas, cultivars 10825
- squashes, production 1347
- strawberries
 - cultivars 2056
 - disease control 10297
- tea
 - climate 6454
 - cultivars 3684
 - research 1851, 2764
- temperate fruits, research 1920
- tomatoes, cultivars 1429-1431, 3253
- vegetables
 - cultural methods 4010
 - production 7641
 - transport 4018
- Vitis*, wild plants, taxonomy 4900
- watermelons
 - cultivars 9959-9960
 - production 1347
- wild plants, edible species 3102, 4710
- Ziziphus sativa*, cultivars 11014

Chinese cabbages

- bolting
 - photoperiod 4087
 - seed treatment 4087
- cotyledons, ultrastructure 1340
- cultivars
 - identification 7715
 - plant nutrition 4100
- disease control, turnip mosaic potyvirus 3145
- disorders, tipburn 6792
- fertilizers 6788
 - nitrogen 4943, 7705
- green manures 1329
- harvesting, equipment 8555
- heat, tolerance 5873
- in vitro* culture
 - culture media 8546
 - embryos 4088
 - explants, sources 4088
 - propagation, micropropagation 376
 - protoplasts 6782
 - responses
 - cultivars 4088
 - sterols 6782
 - somatic embryogenesis 8546
- irrigation, carbon dioxide, application 9419
- leaves
 - biochemistry, light 10442
 - injuries, physiology 1263
 - senescence 1341
 - ultrastructure 1340
- pest control
 - Brevicoryne brassicae* 4105
 - Contarinia nasturtii* 3079
 - Cyclocephala hirta* 4105
 - Delia radicum* 3079
 - Diabrotica undecimpunctata undecimpunctata* 4105

Chinese cabbages *cont.*pest control *cont.**Liriomyza huidobrensis* 3079*Otiorynchus sulcatus* 4105*Trichoplusia ni* 4105

plant

development

models 4108, 5008

planting date 6783

temperature 5008

plant growth regulators, reviews 9426

plant nutrition

calcium 4100, 6792

nitrogen 10442

sulfur 5867

planting

planting date 6783

site preparation 9421

pollen, development, morphology 1343

pollination, compatibility 9487

pollution, acid rain 1263

production, Netherlands 5854

production possibilities, Taiwan 9415

protected cultivation

disease control 3145

systems, row covers 9474

reports, Belgium 1888

research, Netherlands 8201

seedlings, development, seed treatment 3136

seeds

germination, inhibitors 8543

treatment 3136, 4087, 9470-9471

vigour, assessment 9470

shade, responses 6786, 10432

soil amendments 1330

soilless culture

nutrient solutions, composition 6786

plant nutrition 4100

translocation, source sink relations 2185, 4113

weed competition 6785

Chinese cabbages × **radishes**, *in vitro* culture, anthers 2180**Chinese gooseberry** (*see Actinidia*; Kiwifruits)**Chiroptera**, pollinators, Cactaceae 9732**Chitin**, responses, tomatoes 3275**Chives**

cultivars, cytology 2141

disease control, Europe 10366

mycorrhizas 10395

pest control, Europe 10366

roots, biochemistry, mycorrhizas 10395

weed control 10366

Chlorella vulgaris, plant, composition 763**Chloride**

metabolism, salinity, olives 2650

responses, onions 3094

Chlorides

metabolism

irrigation, tomatoes 3266

salinity

Annona squamosa 6372

grapes 8459

tomatoes 3266

plant nutrition, oranges 9889

toxicity, pistachios 2980

Chlorine

determination, vegetables 4939

fertilizers, coconuts 9023

metabolism

rootstock scion relationships, grapes 2077

salinity

apples 6560

figs 3826

mangoes 7326

Mesembryanthemum crystallinum 5244

peaches 3849, 3857

soilless culture, tomatoes 4221

waterlogging, grapes 2077

plant nutrition

carrots 6954

oranges 1723

tomatoes 5101

responses, spinach beets 6774

toxicity

cherries 6599

lawns and turf 10670

Chlorine *cont.*

uptake

apples 106

Cucurbita pepo 5019

olives 3621

peaches 5660

tomatoes 9591

Chloris gayana, as cover crops, mandarins 6323**Chlorophyll** (*see also* Pigments)

biochemistry

bananas 9012

Ficus microcarpa 10689*Phlomis fruticosa* 5289

biosynthesis

cucumbers 3186, 4152

Euonymus japonicus 9804

composition

Aloe arborescens 10774*Aloe barbadensis* 10774*Aloe saponaria* 10774*Liatris spicata* 5207*Oenothera biennis* 3548

satsumas 10842

tea 7368

determination

Acer freemanii 9796*Acer negundo* 4243*Acer rubrum* 9796

grapes 7635

tea 2770

tomatoes 4243

vegetables 9433

Vitis 1252extraction, *Ficus microcarpa* 7970

fluorescence

apples 1101, 2878

broccoli 5878

coffee 7304

cucumbers 5024, 9505

Cucurbita pepo 5023, 10477*Epipremnum pinnatum* 5238

grapes 3063, 7128

horticultural crops 4695

lawns and turf 6154

lettuces 4079

Lilium 8789

ornamental plants 4695

peaches 2957

peas 5967, 6866-6867, 8611, 9527, 9537

Pelargonium zonale 9673*Phaseolus coccineus* 2232, 5047*Phaseolus vulgaris* 3201, 9527, 10477, 10492*Rhododendron* 10721*Rhododendron ponticum* 8854*Rosa canina* 3499

spinach 3111, 5238, 7677, 8611, 9453, 9673

Syringa vulgaris 7124

tomatoes 5110

Viburnum odoratissimum 7127*Washingtonia robusta* 7128

metabolism

bacteria, grapes 6705

biochemistry

cucumbers 5905

olives 865

Phaseolus vulgaris 5905

cadmium, cucumbers 5910

carbon dioxide

Capsicum 2277

lemons 2613

cerium, cucumbers 10471

copper

limes 8065

Phaseolus coccineus 2232

cropping systems, tea 2755

cultivars

Capsicum 5992

grapes 7635

cultural methods

cucumbers 401, 1357

lettuces 2174

Opuntia ficus-indica 5447

development

cocoa 6391

mangoes 4629

Phaseolus vulgaris 10495*Ziziphus spina-christi* 3693**Chlorophyll** *cont.*metabolism *cont.*

diseases, okras 5991

environment, *Vitex negundo* 9861

fertilizers

Alocasia regina 7042

cashews 2680

Citrus 4504

poinsettias 4396

roses 7960

fluorine, peas 10503

frost, *Opuntia ficus-indica* 5447

fruiting, peaches 176

growing media, tomatoes 10547

herbicides, tomatoes 3297

in vitro culture, cherries 4814

iron

peaches 175, 2958

Phaseolus vulgaris 2231

light

broccoli 9743

chrysanthemums 3394

cucumbers 7738

Ficus microcarpa 2500

kiwifruits 211

peas 7738

Phaseolus vulgaris 5939manganese, *Amaranthus* 3323

maturity

Lagenaria siceraria 5036

tea 4649

mycorrhizas

grapes 5752, 6705

sour oranges 7201

tea 955

Ziziphus mauritiana 5518

nitrogen

apples 2877

Capsicum 3237organic acids, *Tropaeolum majus* 623

pH, kiwifruits 5698

photoperiod

Capsicum 529

pineapples 935

tomatoes 529

physiology, olives 4552

plant growth regulators

Alstroemeria 5205

apples 1080

Bougainvillea spectabilis 7075*Centaurea cyanus* 4290

cucumbers 413, 5910

Forsythia intermedia 2502

limes 8065

Opuntia ficus-indica 5447*Pelargonium hortorum* 4290*Tropaeolum majus* 623

plant nutrition

cucumbers 8568-8569

lawns and turf 10670

lemons 6330

peaches 5658

spinach 9453

tomatoes 9598

pollination, *Phalaenopsis* 704

potassium, apples 8278

pruning, plums 9321

ripening

grapes 6723

mandarins 840

tomatoes 9617

rootstock scion relationships

apples 8278

grapes 5752

salinity

Capsicum 8627

guavas 9050

peaches 3849, 3857

sour oranges 7201

Ziziphus rotundifolia 11018

seasonal variation

grapes 7635

Leonurus quinquelobatus 766

tea 2762

Valeriana officinalis 766selenium, *Phaseolus vulgaris* 4164

senescence

broccoli 3152

horticultural crops 6518

shade, lettuce 363

Chlorophyll *cont.*metabolism *cont.*

- soil amendments
- chrysanthemums 9664
- Phaseolus vulgaris* 6846
- storage
- apples 139
- avocados 4486
- broccoli 4119-4121
- cherimoyas 9924
- horticultural crops 3737
- kiwifruits 211
- tomatoes 544

- sugars, spinach 7677
- sulfur dioxide, tomatoes 5093
- temperature

- lemons 2613
- longans 5422
- mangoes 5422

- ultraviolet radiation
- cucumbers 8583
- peas 1395, 5973

- vitrification, *Origanum vulgare* 5316

- water stress 8657
- weeds, tomatoes 6013
- zinc, apples 8285

thermoluminescence

- avocados 3733
- cucumbers 3733
- spinach 3733

Chlorophytum bichetii, pot plants, production, cultural methods 5219**Chlorophytum comosum**, pot plants, production, cultural methods 5219**Chloroplasts**

biochemistry

- Amaranthus hypochondriacus* 5144
- Capsicum* 5079
- carobs 4489
- cucumbers 1367, 4148, 10471
- Cucurbita moschata* 9519
- Epipremnum pinnatum* 5238
- horticultural crops 4695
- leeks 4029
- lettuces 370, 3132, 4079, 5849
- peaches 5658
- peas 448, 1367, 1397, 3132, 3216, 5979, 6862-6863
- Phaseolus vulgaris* 5049
- spinach 1297, 3111-3112, 3114, 4970-4971, 4976, 5238, 6770, 7679-7680, 10402
- Stevia rebaudiana* 9868
- Zantedeschia aethiopica* 1559

composition

- Ficus microcarpa* 7970
- Ipomoea bicolor* 5173
- peas 6861

development

- Phaseolus coccineus* 5047
- physiology, *Solanum pseudocapsicum* 10744

isolation

- aubergines 5486
- Capsicum* 5486
- melons 5486

movement, light, *Adiantum capillus-veneris* 5220

physiology

- inhibitors, lettuce 369
- light

- cucumbers 7738
- Mesembryanthemum crystallinum* 8827
- peas 7738

- plant growth regulators
- peas 5977
- spinach 5977

- salinity, *Mesembryanthemum crystallinum* 8827

temperature

- peas 6867
- tomatoes 5110

- ultraviolet radiation, peas 6867

ultrastructure

- cucumbers 3183, 4143, 5022
- Cucurbita pepo* 4142
- Cymbidium goeringii* 697
- horticultural crops 6518
- peas 9539
- Phaseolus coccineus* 2232

Chloroplasts *cont.*ultrastructure *cont.*

- Portulaca grandiflora* 9745
- tea 2763

Choline

- composition, *Physalis ixocarpa* 875
- metabolism
- photoperiod, spinach 4973
- salinity, spinach 4973
- responses, lettuce 4992

Chondrostereum purpureum, stone fruits 9163**Chondrus crispus**, products, proteins 1695**Choristoneura rosaceana**, apples 8300**Christensonia vietnamica**, characteristics 7934**Christia vespertilionis**, characteristics 3409**Chromium**

composition

- algae 8219
- apples 8219
- Asparagus* 2265
- Citrus* 8219
- Gerbera* 8219
- Hibiscus* 9428
- Juglans* 10261
- vegetables 9428, 10363
- metabolism, maturity, *Asparagus* 2265
- plant nutrition, tomatoes 511
- toxicity
- lettuces 10413
- Papaver somniferum* 3550
- uptake
- lettuces 4941
- spinach 4941
- Trigonella foenum-graecum* 4941

Chromones, composition, mangoes 4631**Chromosomes**

- Bupleurum* 9849
- Lactuca* 8529
- Lantana camara* 8881
- Petunia* 5053
- Vicia faba* 5053

Chrysalidocarpus lutescens, propagation, techniques 2430**Chrysanthemum**, herbicides, injuries 6085**Chrysanthemum cinerariifolium** (see *Tanacetum cinerariifolium*)**Chrysanthemum coccineum** (see *Tanacetum coccineum*)**Chrysanthemum coronarium**

flowers

- initiation
- morphology 4998
- seasonal variation 4998
- pollution, acid rain 8493
- soilless culture
- nutrient solutions
- composition 3074
- pH 3074
- temperature 3074

Chrysanthemum indicum (see *Chrysanthemums*)**Chrysanthemum leucanthemum** (see *Leucanthemum vulgare*)**Chrysanthemum maximum** (see *Leucanthemum maximum*)**Chrysanthemum morifolium** (see *Chrysanthemums*)**Chrysanthemums**

- buds, initiation, plant growth regulators 10617
- cultivars, assessment, Germany 3386
- cut flowers
- biochemistry 605
- leakage 9698
- preservatives 5172, 6096, 8749
- production, cultural methods 1538, 2381, 3390-3391, 5170-5171
- quality, plant nutrition 10619
- storage 5172
- vase life 605, 2385, 5172, 8749, 10621

cuttings

- production, assessment 5169
- rooting
- growing media 3387-3388
- irrigation 1517
- sources, assessment 9661
- treatment 1540

Chrysanthemums *cont.*

- disease control, *Puccinia horiana* 603-604, 8748

- economics, Netherlands 6093

fertilizers

- nitrogen 3388
- phosphorus 9665

- flowers, colour, plant growth regulators 4285

- green manures 334

growing media

- aeration 9663
- porosity 3389

- humidity, responses 5170

- in vitro* culture, storage 601

insecticides

- injuries 1540
- residues 2833

- irrigation, systems 9663

leaves

- anatomy 3394
- biochemistry, light 4287
- composition 5876
- development
- light 1541, 3394
- models 1541
- temperature 1541

pest control

- Aphis gossypii* 10620
- arthropods 7420
- Liriomyza trifolii* 1539

photoperiodism 2384

- pinching, responses 2384

plant growth regulators

- ethephon, responses 10617
- flurprimidol, responses 8740
- gibberellic acid, responses 2381-2382, 3390
- 2-KhEFFK, responses 8212

- plant nutrition, nitrogen 5171

- planting, planting date 2381-2382, 2384, 3390, 10618

- planting stock, storage 9662

pot plants

- cultivars 3386

development

- cultivars 6094
- light 6094
- temperature 6094, 10611
- storage 10607

protected cultivation

- carbon dioxide 605
- cultivars 10618
- cultural methods 10618
- heating systems 2371
- microclimate 2383
- temperature 6095

- roots, morphology 602

- soil amendments 3392, 9664

- soil pH, responses 3392

- soil types 9664

soilless culture

- cultural methods 9665
- plant nutrition 5171, 10619
- systems

- acronics 602, 1538
- hydroponics 3391, 3393
- nutrient film techniques 602, 1538

Chrysodeixis eriosoma, cabbages 7711**Chrysogonum virginianum**

- forcing 595

- pot plants, production, cultural methods 595

Chrysoperla, control, of *Aphis gossypii*, melons 911**Chrysoperla carnea**

control

- of Aphididae
- cucumbers 2307
- lettuces 1315
- tomatoes 2307

Chrysoperla rufilabris, control, of *Bemisia argentifolii*, watermelons 9044**Cicadellidae**

- coffee 7301

- fruit crops 6517

- nut crops 6517

Cichorium (see also *Chicory*; *Endives*)**Cimicifuga foetida**, taxonomy, nomenclature 3543**Cinchona ledgeriana**, soil types 9850

- Cinchona robusta*, soil types 9850
Cineraria, pot plants, storage 10607
Cinerarias (see *Senecio*)
Cinnamomum, disease control, *Botryodiplodia theobromae* 6258
Cinnamomum camphora
 leaves, biochemistry 5309
 plant, development, morphology 5282
 pollarding, responses 8007
Cinnamomum glanduliferum, plant, development, morphology 5282
Cinnamomum japonicum, plant, development, morphology 5282
Cinnamomum zeylanicum, cultural methods, India 2517
Cinnamon (see *Cinnamomum*)
Circadian rhythm
 cucumbers 409
Kalanchoe daigremontiana 5241-5242
Pharbitis nil 1543, 3397
 tomatoes 8681-8682
Cirrhaea, taxonomy, nomenclature 7056
Cirrhopetalum
 taxonomy
 new taxa 693
 revisions 4373
Cirsium arvense, as weeds, apples 8269
Cirsium japonicum, as weeds, lawns and turf 8802
Cissus rhombifolia, disease control, *Fusarium oxysporum* f.sp. *radicis-lycopersici* 3503
Cistanche tubulosa, cultural methods, China 7155
Cistus, pest control, *Plastosciaria pernicios*a 4390
Cistus ladanifer, mycorrhizas 1644
Citranges
 as rootstocks
Citrus 3591, 7197, 9878
Citrus hassaku 5367
 clementines 10823
 grapefruits 7196, 8056, 8942
 lemons 8941, 9875
 limes 10833
 mandarins 10832
 oranges 828, 2590, 5374, 5380, 6314, 7196, 8055, 10829-10830
 herbicides
 application methods 8059
 injuries 8059
in vitro culture, propagation, responses 9877
 irrigation, water, salinity 8064
 plant, anatomy 7197
 plant growth regulators, paclobutrazol, responses 5366
 rootstocks
 pest resistance 2589
 propagation, mycorrhizas 1717
Citrons
 cropping systems, agroforestry 2586
 economics, Bangladesh 2586
 fruits, quality, assessment 10868
 taxonomy, cytotoxonomy 4491
Citropsis gabunensis, *in vitro* culture, somatic embryogenesis 8899
Citropsis schweinfurthii, *in vitro* culture, somatic embryogenesis 10836
Citrullus (see also Watermelons)
Citrullus colocynthis
 seedlings, emergence, seed treatment 6279
 seeds, germination, seed treatment 6279
Citrumelos
 as rootstocks
 grapefruits 5370, 8942
 lemons 9875
 oranges 4496, 5369, 8055, 10829-10830
 defoliation, responses 4496
 fertilizers, nitrogen 4504
 plant growth regulators, paclobutrazol, responses 5366
 plant nutrition, nitrogen 4504
 rootstocks, pest resistance 2589
 shade, responses 4496
Citrus (see also Calamondins; Citranges; Citrons; Citrumelos; Clementines; Grapefruits; Kumquats; Lemons; Limes; Mandarins; Natsudaids;
Citrus cont.
 Oranges; Oraniques; *Poncirus trifoliata*; Pummelos; Rough lemons; Satsumas; Sour oranges; Tangelos; Tangors)
 books, Australia 1865
 chimaeras 8939
 climate
 books 1874
 China 7199
 monitoring 6318
 cold, injuries 6319
 cropping systems, intercropping 1030
 cultivars
 assessment, Brazil 7405
 characteristics, China 10822
 identification 8939
 pest resistance 2607, 7206
 seasons 10822
 cultural methods
 labour requirements 1718
 slopes 1718
 disbudding, responses 5372
 disease control
 books 9114
 China 827, 1725
 citrus tristeza closterovirus 3591
 computer software 3594
 fungi 2828, 8068
Phytophthora citrophthora 10846
Spiroplasma citri 3592
Xanthomonas campestris pv. *citri* 7208
 disorders
 blight 8965
 chlorosis 8946
 granulation, reviews 2624
 economics 5361
 Australia 2587
 USA 7195
 fertilizers 5376
 iron 4509
 nitrogen 4509, 5378, 7203
 flowers, composition 4516
 fruits
 biochemistry, plant growth regulators 5389
 composition 820, 5363
 reviews 8085
 drop
 plant growth regulators 5389
 wind 5372
 flavour, genetics 4526
 mechanical properties, measurement 4534
 set, cultivars 4517
 fungicides, residues 10851
 harvesting
 equipment 6337
 techniques, mechanical harvesting 6328
 herbicides
 application methods 8059
 injuries 8059
 persistence 1721
 residues 3612
in vitro culture
 organogenesis 10834
 propagation, micropropagation 10834
 somatic embryogenesis, reviews 6316
 insecticides, injuries 1727
 irrigation
 requirements, determination 6326
 systems 825
 leaves
 biochemistry 8937
 composition 826, 8066, 10064
 marketing, Tunisia 4677
 mulching
 materials 8068
 responses 10086
 mycorrhizas 9887
 nutrients, requirements, analysis 5376
 organic culture 5373
 pest control
Aceria sheldoni 3596
Aleurocanthus woglumi 1727
Aonidiella aurantii 3599, 5386, 8950
 books 9114
 Brazil 7207
Ceratitis capitata 2603
Citrus cont.
 pest control cont.
Ceratitis rosa 2603
Ceroplastes rubens 3598
 China 827, 1725
Coccus viridis 1727, 3599
Diaphorina citri 8955
Diaprepes abbreviatus 1727, 8073
Eutetranychus orientalis 8069
Forficula auricularia 3753
Helicoverpa armigera 9891
 insects 1735
Lepidosaphes beekii 2610
Meloidogyne donghaiensis 830
Meloidogyne incognita 831
Pachnaeus litus 1727
Panonychus citri 1727, 2598, 6333
Panonychus ulmi 10848
Parabemisia myricae 1732
Parlatoria pergandii 2610
Phyllocnistis citrella 1727, 2607-2608, 6333, 8071, 8953
Phyllocoptruta oleivora 1727, 3595, 6333
Planococcus citri 1727, 2609, 5386
Polyphagotarsonemus latus 3599
 Réunion 6334
Scirtothrips aurantii 7209
Scirtothrips citri 2604, 8952
 South Africa 3590
 Turkey 2595
Tylenchulus semipenetrans 831
 pests
 surveys
 Côte d'Ivoire 4571
 UK 1736
 photosynthesis, plant water relations 3601
 plant, composition 8219, 10834
 plant growth regulators
 2-KhÉFK, responses 8212
 NAA, responses 5369
 paclobutrazol, responses 5366
 reviews 1738
 plant nutrition, iron 3589
 planting stock, establishment 2592
 production
 Brazil 6488
 Malaysia 9130
 pruning, systems, mechanical methods 6328
 reports, India 3714, 4671
 reproduction, physiology 6336
 rhizosphere, microorganisms 4502
 rootstock scion relationships, quality, reviews 4498
 rootstocks
 assessment, Mexico 9878
 disease resistance 4492
 dwarfing 7197
 identification 2588
 mycorrhizas 8060, 9887
 pest resistance 2589
 plant nutrition 4504, 8060
 propagation
in vitro culture 5368, 8943, 9877
 seeds 5364
 salinity 8064
 shelterbelts 7209
 soil management, systems 6321
 soil types 4502
 sorting, techniques 5407
 storage
 physiology 843
 treatment 843
 taxonomy, chemotaxonomy 820, 8937-8938
 translocation, source sink relations 8184
 water stress, measurement 10817
 weed control 1720, 6324, 8944, 9884
 books 9114
 wind, injuries 5371-5372
 windbreaks 7208
 yields, disorders 8965
Citrus depressa, as rootstocks, oranges 3583
Citrus exocortis viroid
 grapefruits 6314
 oranges 6314

- Citrus hassaku**
fruits
 mechanical properties, assessment 6344
 quality, rootstock scion relationships 5367
roots, composition 6335
rootstock scion relationships
 growth 5367
 yields 5367
storage
 disorders 844
 treatment 844
- Citrus ichangensis**
as rootstocks, *Citrus* 7197
plant, anatomy 7197
taxonomy, chemotaxonomy 8937
- Citrus junos**
as rootstocks
 Citrus 7197
 Citrus hassaku 5367
 grapefruits 8056
disease control
 Alternaria citri 10864
 Geotrichum candidum 10864
 Glomerella cingulata 10864
 Penicillium digitatum 10864
 Penicillium italicum 10864
fruits, ripening, biochemistry 10864
plant, anatomy 7197
plant extracts, application, *Lentinula edodes* 8733
storage
 diseases 10864
 treatment 10864
- Citrus karna**
as rootstocks
 limes 10833
 mandarins 10832
 oranges 2590
- Citrus latifolia**
flowers, initiation, *in vitro* culture 7212
fruits, composition 5411
in vitro culture, organogenesis 7212
plant growth regulators, ethephon, responses 10853
production, Argentina 5360
- Citrus limetta**, plant water relations, models 8958
- Citrus limettoides**
as rootstocks
 limes 10833
 mandarins 10832
- Citrus limonia**
as rootstocks
 lemons 9875
 limes 10833
 mandarins 10832
 oranges 828, 5383
mycorrhizas 8060
plant nutrition, phosphorus 8060
taxonomy, chemotaxonomy 8937
- Citrus macrophylla**
as rootstocks
 lemons 6313, 8946
 limes 10826, 10828
herbicides
 application methods 8059
 injuries 8059
plant, development, assessment 10827
shoots, histology 10828
stomata, frequency 10828
water stress, responses 8957
- Citrus meyeri**
flowers, biochemistry 3602
leaves, biochemistry 3602
- Citrus microcarpa**
pest control, *Tylenchulus semipenetrans* 2597
products, pectins 1774
- Citrus nobilis** × **mandarins**
grafting, techniques, micropropagation 3583
in vitro culture, propagation, micropropagation 3583
- Citrus otachibana**, taxonomy, chemotaxonomy 8938
- Citrus** × **Poncirus**, rootstocks, identification 2588
- Citrus poonensis**, fruits, composition 4514
- Citrus pseudolimon**, fruits, composition 8086
- Citrus sudachi**, fruits, composition 4533, 4535
- Citrus sunki** × **Poncirus trifoliata**, rootstocks, pest resistance 2589
- Citrus tagamasudachi**, fruits, composition 5411
- Citrus taiwanica**, as rootstocks, oranges 10830
- Citrus tamurana**
flowers, development, plant growth regulators 10852
fruits, development, plant growth regulators 10852
- Citrus tankan**
taxonomy
 cytology 3582
 morphology 3582
- Citrus tristeza closterovirus**, *Citrus* 3591
- Citrus volkameriana**
as rootstocks
 Citrus 3591
 grapefruits 8056
 lemons 8941
 limes 10826, 10828
 oranges 3584, 4503, 6313, 8946, 10829-10830
fertilizers, nitrogen 4504
plant, development, assessment 10827
plant nutrition, nitrogen 4504
shoots, histology 10828
stomata, frequency 10828
- Cladosporium**
carrots 9623
epiphytes, tea 10019
- Cladosporium caryigenum**, pecans 2978
- Cladosporium cucumerinum**
marrows 6820
melons 6820
- Cladosporium cycadis**, *Cycas revoluta* 7967
- Clarkia breweri**, flowers, composition 611
- Clasoptera globosa**, cocoa 9019
- Clausena lansium**, seeds, development, physiology 1769, 4567
- Clavibacter michiganensis subsp. michiganensis**, tomatoes 1451, 3287
- Clay**
utilization
 growing media
 cucumbers 8567
 Cupressus sempervirens 9772
 Cyclamen 3426
 Gerbera 8752
- Clay granules**
utilization
 growing media
 Anthurium scherzerianum 5234
 cucumbers 3172
 Dieffenbachia maculata 5234
 horticultural crops 6511
- Clematis**
cultivars, ornamental value 7108
nutrients, requirements, analysis 3504
planting stock, production, cultural methods 3504
species, ornamental value 7108
- Clematis vitalba**
plant nutrition
 calcium 5283
 nitrogen 5283
 phosphorus 5283
 sulfur 5283
soil pH, responses 5283
- Clementines**
cultivars
 assessment, New Caledonia 4493
 pest resistance 1730
disorders
 chilling injury 4529
 water spot 8075
fertilizers, nitrogen 6327
fruits
 development, plant growth regulators 2619, 8963
 size
 cultural methods 5398
 plant growth regulators 4524
irrigation, fertigation 6327
pest control, *Aonidiella citrina* 1734
pest resistance, *Ceratitis capitata* 1730
- Clementines cont.**
plant growth regulators
 abscisic acid, metabolism 8963
 2,4-D, responses 8075
 gibberellic acid, responses 6343, 8075, 8963
 paclobutrazol, responses 8963
 3,5,6-trichloro-2-pyridyloxyacetic acid, responses 2619
pollination, compatibility 5392
seeds, development, pollination 5392
storage
 diseases 10823
 disorders 4529
 humidity 4529
 quality
 cultivars 10823
 rootstock scion relationships 10823
 treatment 7221, 8083
 water stress, responses 9882
 wounds, healing 4529
- Cleome droserifolia**
plant nutrition
 aluminium 8027
 cobalt 8027
 iron 8027
 manganese 8027
 nickel 8027
 silicon 8027
- Clerodendrum**, taxonomy, chemotaxonomy 2496
- Clerodendrum paniculatum**, taxonomy, chemotaxonomy 2496
- Clerodendrum thomsoniae**
flowers, initiation, photoperiod 10732
photoperiodism 10732
- Clerodendrum trichotomum**, taxonomy, chemotaxonomy 2496
- Climbers**, books 994
- Clitoria ternatea**, soil types 8910
- Clivia miniata**
leaves
 cytology 656
 senescence 656
ovules, development, biochemistry 7028
pot plants, production, cultural methods 7027
- Cloches** (see *Protected cultivation*)
- Cloves** (see *Syzygium aromaticum*)
- Cnidium officinale**, *in vitro* culture, propagation, micropropagation 9851
- Coal**
utilization
 growing media, tomatoes 508
 soil amendments, chrysanthemums 9664
- Cobalt**
composition
 Hibiscus 9428
 Juglans 10261
 vegetables 9428
determination, dates 4537
responses
 Albizia julibrissin 5277
 cucumbers 6026
 melons 9965
 tomatoes 6026
toxicity
 onions 1285
 Vicia faba 2240
uptake
 Cassia senna 8027
 Cleome droserifolia 8027
 mushrooms 565
- Cobnuts** (see *Hazelnuts*)
- Coccinia grandis**, characteristics 10773
- Coccoidea**
control, of insects, *Citrus* 1735
kiwifruits 7560
ornamental plants 1526
- Coccus celatus**, coffee 2696
- Coccus viridis**
 Citrus 1727, 3599
 coffee 2696
- Cochleanthes**, taxonomy, nomenclature 7056
- Cochlearia armoracia** (see *Armoracia rusticana*)
- Cococa**
climate, books 1874
cover crops, responses 3637

- Cocoa** *cont.*
 cropping systems
 agroforestry 890, 1795, 2681, 3636, 9934
 intercropping 1838, 2689, 6389
 cultivars
 assessment, Malaysia 4591
 disease resistance 6388
 fermentation 4595
 cultural methods, Indonesia 10915
 disease control
 conferences 9951
Crinipellis perniciosa 9017
Phytophthora palmivora, reviews 6513
 disorders, cherelle wilt 7284
 drying, equipment 892
 fruits
 development, disorders 7284
 set, pollination 4594, 10918
 handling, techniques 7285
in vitro culture, somatic embryogenesis 5469, 10916
 intercropping
Areca 6389
 oil palms 1838
 leaves, development, biochemistry 6391
 pest control
Clastoptera globosa 9019
 conferences 9951
Conopomorpha cramerella 891, 9018
Helopeltis theivora 2682
 insects 3654, 4593
Selenothrips rubrocinctus 8132
Toxoptera aurantii 8132
 plant, development, assessment 10917
 plant competition, *Areca* 6389
 plant residues, utilization, growing media 977
 planting, spacing 4591
 pods
 biochemistry 9021
 flavour, assessment 2685
 pollination, physiology 4594
 processing
 fermentation 892, 1796, 2683-2684, 4595-4596, 5470, 7285-7287
 quality, storage 2684
 residues 3637
 production
 Caribbean 5468
 Ecuador 6390
 history 6530
 India, books 2788
 products, pectins 1774
 reports
 Ghana 8192
 India 10057
 seeds
 aroma, biochemistry 1796, 7286-7287
 biochemistry 893
 composition 4596
 flavour, biochemistry 894
 quality, assessment 9022
 set, pollination 4594
 storage, physiology 2668
 surveys, Papua New Guinea 9022
 transpiration, assessment 9020
 weed control 4592
 yields, diseases 9017
- Coconut lethal yellowing**, coconuts 7290
- Coconuts**
 climate, requirements, reviews 896
 cropping systems
 agroforestry 876, 3636
 intercropping 2689, 3655, 5471-5472, 6373
 cultivars
 characteristics, India 2686
 disease resistance 8133
 disorders 8133
 history
 East Africa 6393
 Tanzania 2687
 pest resistance 8133
 disease control
 coconut lethal yellowing 7290
Phytophthora 6394
 disorders
 crown choke 8133
 wilt 9952
- Coconuts** *cont.*
 drought, responses 10920
 fertilizers 5473, 9950
 chlorine 9023
 potassium 9023
 sodium 9023
 fruits
 browning, storage 9953
 composition 9024
 development, water stress 10920
 quality, assessment 7439
 geographical distribution 6393
 history, Mexico 9946-9947
in vitro culture
 propagation, micropropagation 1799
 somatic embryogenesis 1798-1799, 2690
 storage 4570
 intercropping
Acacia auriculiformis 5471
Acacia mangium 5471
Areca catechu 6373
 cocoa 2689
 coffee 2689
 essential oil plants 3655
 medicinal plants 3655
Piper 2689
 mulching, responses 1800
 mycorrhizas 877
 nutrients, requirements, analysis 7261
 nuts, size, assessment 7289
 pest control
Ameris ynca 4597
Brontispa longissima 10922
Oryctes rhinoceros 7291, 10921
 plant, canopy, light 9948
 plant growth regulators, cytokinins, composition 9024
 plant residues, utilization, fertilizers 6396
 plant water relations, intercropping 5472
 planting stock, production, cultural methods 10919
 pollen, composition 898
 production
 Brazil 6488
 India 7288, 9945
 Philippines 895
 Togo 1797
 products
 beverages 6395
 oils 6392
 wood 6397
 reports, India 10057
 seedlings, development, assessment 7289
 seeds
 germination
 biochemistry 2688
 tests 7289
 solar radiation, measurement 897
 storage, treatment 9953
 weeds, surveys, India 9949
 yields, pests 899
- Cocos** (*see also* Coconuts)
- Codiaeum**, pot plants, production, cultural methods 7920
- Codiaeum variegatum**, pot plants, storage 10607
- Codonopsis**
 taxonomy
 chemotaxonomy 4450
 morphology 3410
Codonopsis convolvulacea, taxonomy, morphology 3410
Codonopsis grey-wilsonii, taxonomy, nomenclature 8764
Codonopsis nepalensis, taxonomy, nomenclature 8764
Coenosia, control, of insects, ornamental plants 6515
Coffea, species, pest resistance 6404
Coffea congensis × *Coffea canephora*, *in vitro* culture, somatic embryogenesis 1803
Coffea zaquebariae, flowers, abnormal development 2699
- Coffee**
 altitude, responses 10926
 climate
 books 1874
 reviews 6398
 conferences 5540, 5542, 6406
- Coffee** *cont.*
 cover crops, responses 7296
 cropping systems
 agroforestry 2692, 3636, 8138, 10923
 reviews 8139
 intercropping 2689
 monoculture, reviews 8139
 cultivars
 assessment, USA 4599
 characteristics, Costa Rica 5476
 disease resistance 5476
 pest resistance 1802
 cultural methods
 Africa 7292
 Kenya 7299
 Latin America 10923
 cuttings
 rooting, seasonal variation 6399
 treatment 4600, 6399, 10924
 disease control
Glomerella cingulata 2694-2695, 6403
Hemileia vastatrix 900, 2695, 3661, 5481, 8140, 9030, 10925, 10927
Koleroga noxia 9031
Pseudomonas syringae 2694, 6403
 ecology, reviews 6398
 economics, Brazil 8135
 fertilizers 7299
 nitrogen 5480, 10925
 phosphorus 9029, 10925
 potassium 10925
 frost, protection, insecticides 1804
 fruits
 development, shade 8141
 size, shade 8136, 8141
 green manures 10925
 handling, techniques 6405
in vitro culture
 biochemistry 9035
 callus, growth 3656
 cell suspensions 902, 2691
 propagation, micropropagation 6400, 7295
 somatic embryogenesis 30, 2691, 4601, 6400, 7294, 7309, 9026
 storage 2698, 4570, 4602
 techniques 30, 7260
 irrigation, requirements, determination 7297
 leaves
 biochemistry 4603, 5482, 7306, 7308
 age 7307
 development
 models 7302, 8137
 shade 8137
 mycorrhizas 1805, 3660, 9028
 organic culture 9027
 pest control
Araecerus fasciculatus 901
 Cicadellidae 7301
Coccus celatus 2696
Coccus viridis 2696
Hypothenemus hampei 7300, 8140, 9033, 9954, 10929
 Kenya 9032, 9034
Monochamus leuconotus 10928
Perileucoptera coffeella 8140, 9955, 10925
Quesada gigas 2697
 photosynthesis
 cultivars 7304
 light 7305
 shade 9956
 water stress 7304-7305, 9956
 plant, biochemistry 4605
 plant extracts, application, *Tradescantia albiflora* 7916
 plant nutrition
 nitrogen 5479
 phosphorus 3660, 5479
 potassium 5479
 plant residues
 utilization
 disease control 753
 soil amendments 9821
 plant training, systems 7298
 planting, spacing 5477-5478, 10925
 processing
 quality
 cultivars 7293, 7311

Coffee *cont.*

- processing *cont.*
- quality *cont.*
 - handling 6405
 - techniques 4604
- production
 - Africa 7292
 - history 6530
 - India, books 2788
 - Indonesia 8134
 - Jamaica 9025
 - Vietnam 5474
- production possibilities, South Africa 2578
- products, antioxidants 6408
- pruning, systems, assessment 3659, 7298
- reports, Malawi 10059
- research
 - Burundi 1801
 - experimental design 4598
 - experimental plots 4598
- roots, development, cultivars 7303
- rootstocks
 - characteristics, Central America 5475
 - pest resistance 5475, 10928
- seeds
 - aroma, biochemistry 3662
 - composition 903, 1052, 3662, 6407, 10930
 - quality, cultivars 4599
- shade, responses 3659, 5477-5478, 7332
- shading
 - responses 10926
 - techniques 2692
- soil amendments 5477
- soil management, systems 6401
- storage
 - humidity 7310
 - temperature 7310
- transpiration
 - light 7305
 - water stress 7305
- water stress, responses 7304-7305
- weed control 3657, 6402, 7296
- weeds, populations, assessment 3658
- yields, diseases 2693

Coir

- utilization
 - casing, mushrooms 2347
 - growing media
 - Anthurium* 687
 - Clematis* 3504
 - cucumbers 3173, 8567
 - horticultural crops 51, 2814
 - Impatiens* 4307
 - ornamental woody plants 1617
 - Ravena rivularis* 687
 - strawberries 5724

Cola nitida, storage, physiology 9036**Colchicum autumnale**, production possibilities, France 5336**Cold** (*see also* Frost; Temperature; Winter hardness)

- injuries
 - apples 4744
 - Citrus* 6319
 - cucumbers 9501
 - loquats 10879
 - tomatoes 4237
- resistance
 - anatomy, *Litchi* 856
 - assessment
 - cucumbers 8580
 - raspberries 8407
 - biochemistry
 - Ajuga* 5179
 - cucumbers 10474
 - grapes 6693, 8481
 - Rhododendron* 8854
 - satsumas 10842
 - breeding, *Prunus mume* 5293
 - cultivars
 - Litchi* 8974
 - pecans 7543
 - cultural methods, satsumas 10842
 - physiology
 - cucumbers 9516-9517
 - Cucurbita pepo* 7739
 - grapes 6715
 - Rhododendron* 9782

Cold *cont.*

- resistance *cont.*
 - plant growth regulators
 - globe artichokes 5843
 - horticultural crops, reviews 8208
 - plant nutrition, cucumbers 9502
 - plant water relations, *Litchi* 8974
 - seed treatment, cucumbers 1352
 - water stress, *Rhododendron* 9782
- responses
 - Actinidia eriantha* 10268
 - Amaranthus lividus* 557
 - aubergines 4017
 - bananas 886, 1786, 3651
 - Coreopsis grandiflora* 9683
 - Coreopsis lanceolata* 9683
 - cucumbers 4017, 4143, 4146, 5025, 6810, 9505
 - Episcia cupreata* 4017
 - kiwifruits 10268
 - Leucanthemum superbum* 9683
 - Liatris spicata* 10659
 - Panax quinquefolius* 10794
 - peas 9527
 - Phaseolus vulgaris* 5941, 9527
 - radishes 5884
 - satsumas 2615
 - Syzygium samarangense* 7382
 - tomatoes 546, 3295, 3308, 4017, 5025
- tolerance
 - cucumbers 410, 4145, 9432
 - Cucurbita ficifolia* 410
 - okras 9432
 - tomatoes 4145, 9432
- treatment
 - carrots 10579
 - cucumbers 9501

Coleus

- plant
 - development
 - apical dominance 10071
 - light 10071

Coleus blumei

- photosynthesis
 - cultivars 8821
 - photoinhibition 8821

Coleus forskohlii, plant, development, temperature 6285**Coleus hybridus**

- cuttings, rooting, irrigation 1517
- shoots, vascular system 7748

Colletidae, pollinators, *Prosopis velutina* 2512**Colletotrichum**

- Magnolia grandiflora* 4392
- strawberries 1211, 9369-9370

Colletotrichum acutatum

- apples 2920, 3805
- oranges 10845
- strawberries 3011
- Vaccinium ashei* 9352

Colletotrichum camelliae, tea 6451**Colletotrichum capsici**, *Capsicum* 8631**Colletotrichum lindemuthianum**, *Phaseolus vulgaris* 5948**Colletotrichum musae**, bananas 9013**Colletotrichum orbiculare**

- cucumbers 8575
- watermelons 1807

Collybia, growing media, composition 2334**Collybia maculata**

- in vitro* culture, mycelium 3363
- nutritive value 3363

Colocynthis vulgaris (*see Citrullus colocynthis*)**Colombia**

- fruit crops, production 6489
- melons, cultivars 7642
- vegetables
 - cultivars 7642
 - production 10358

Commelina communis, as weeds, lawns and turf 8802**Commelina diffusa**, as cover crops, coffee 7296**Commiphora wightii**, seeds, development, apomixis 8915**Comperiella bifasciata**, control, of *Aonidiella aurantii*, *Citrus* 8950**Compositae** (*see Asteraceae*)**Computer vision**

- harvesting
 - apples 4795
 - mushrooms 6975
- in vitro* culture, coffee 7294
- planting, horticultural crops 1893
- propagation
 - Orchidaceae 8832
 - vegetables 6727
- quality, apples 10169
- sorting
 - apples 6589
 - oranges 2625
 - pistachios 10247
- surveys, cucumbers 6807

Computers

- control
 - cultural methods, tomatoes 3277
 - environment, greenhouses 1900, 2371, 4690, 5570, 7414, 8217
 - irrigation, melons 2704
- monitoring
 - fruit set, apples 129
 - growth
 - horticultural crops 4684
 - tomatoes 490
 - maturity, broccoli 5877
 - pollination, apples 129
 - quality, cabbages 5860
- utilization
 - disease control, apples 112-113
 - expert systems
 - cut flowers 4276
 - roses 6199
 - fertilizers
 - tea 3687
 - temperate fruits 2843
 - grading
 - fruit crops 5581
 - melons 7315
 - tomatoes 5581
 - harvesting
 - apples 4795
 - tomatoes 6951
 - horticulture 5582, 9133
 - irrigation
 - Citrus* 825
 - strawberries 5727
 - models
 - apples 3758, 10143
 - ornamental bulbs 8783
 - roses 6204
 - planting, apples 3757
 - pruning, *Vaccinium* 5709
 - sorting
 - Citrus* 5407
 - dates 1744
 - fruit crops 4709
 - vegetables 4709
 - storage, *Capsicum* 7782
 - taxonomy
 - grapes 8438
 - ornamental woody plants 10715

Comstockaspis perniciosus, fruit crops 7479**Conferences**

- 1995 Australia and New Zealand thrips workshop: methods, biology, ecology and management 7396
- Agricultural biotechnology 5469, 5508
- Agricultural utilization of urban and industrial by-products 1044
- Algae and biotechnology 3322, 3325, 3554-3557
- American Camellia Society 2476
- American Society for Enology and Viticulture 9125
- American Society for Horticultural Science, Western region annual meeting 9126
- American Society of Agricultural Engineers 3470
- American Society of Enology and Viticulture 6484
- Annual IDFTA Conference 6514, 6569
- Appropriate weed control in Southeast Asia 37, 319
- Architecture of fruit trees and forest trees 3706, 5586, 5689, 5692-5693
- Biennial workshop on AICRP on palms 9945

Conferences *cont.*

- Biodiversity and conservation of neotropical montane forests 10784
- Biogeochemistry of trace elements 8739, 9478
- Biological control of social forest and plantation crops insects 2798
- Brazilian vegetable congress 6479-6480
- Brighton Crop Protection Conference, Pests and Diseases 1048, 1452, 2425, 2906, 3079, 3148, 3315, 3337, 3378, 4946, 5006, 5107
- Brighton crop protection conference, pests and diseases 7484, 7560, 7567, 7588
- Brighton crop protection conference: weeds 6324, 6442-6443, 8268-8269, 8494, 8605, 8800
- Canadian Phytopathological Society 7074
- Cerrado: strategies and utilization 5542
- Chemistry and fate of modern pesticides 2612
- Climate of the cultivated field 10070
- Cocoa pests and diseases 9951
- Coffee factory managers and society management committees seminars 6406
- Comparing glasshouse and field pesticide performance 5481
- Congreso agrónómico de la Sociedad Agronómica de Chile 4918
- Congreso Argentino de Horticultura 5727
- Cultivar improvement of horticultural crops, flowers 4302, 4323, 4369, 4406, 5293, 5423
- Cultivar improvement of horticultural crops, fruit crops 3764, 3772, 3812, 3889, 3893, 3905, 3936, 4516-4517, 4559
- Current issues in plant molecular and cellular biology 6495, 6547, 6654-6655, 6953-6954, 6957, 7085, 7260
- Current problems in agricultural engineering 1926
- Danish plant protection conference, pests and diseases 7758, 7872, 8874
- Drainage and the environment 8495
- Ecdysone workshop 4061
- Ecological aspects of green areas in urban environments 10052
- Environmental radiochemical analysis 4009, 5000
- EPPO conference on plum pox 174, 201-202, 205
- EPPO workshop on fungicide resistance of *Botrytis cinerea* to anilino-pyrimidines 8471
- EPPO/CiHEAM Workshop on *Phyllosticta citrella* 8953
- Eucarpia symposium. Section ornamentals 6477, 7021, 7023, 7026, 7030-7031, 7063, 7109
- Expanding the production and use of cool season food legumes 5060
- Farmers in small-scale and large-scale farming in a new perspective 6093
- Fertilizers and the environment 7444, 7775, 8062
- Fifth international symposium on plum and prune genetic, breeding and pomology 2023, 2026-2030
- Florida State Horticultural Society 3866, 3951, 4078, 4084, 4204, 4608, 4692, 4879-4880, 4887, 4895, 4907-4908, 4965, 5039, 5051, 5076, 5085, 5089-5090, 5095, 5100, 5132-5133, 5153, 5156, 5160, 5177, 5180, 5198, 5209, 5215, 5219, 5233, 5261, 5266, 5278, 5288, 5295-5296, 5363, 5368-5370, 5373-5375, 5378-5380, 5382, 5395-5396, 5400-5402, 5408-5409, 5417-5421, 5448, 5484, 5497, 5503, 5523
- Fruit flavours. Biogenesis, characterization and authentication 4670
- German Society for General and Applied Entomology 7422, 7664, 7710, 8294
- Global 500 forum 9986
- Grassland as production site and landscape element 6738

Conferences *cont.*

- Greenhouse environment control and automation 346, 533, 1882, 1898-1901, 1903-1904, 2083, 2179, 2226, 2297, 2301, 2316, 2704
- Groundwater — drought, pollution management 4499
- Hawaii Macadamia Nut Association 1883
- Herbicide-resistant crops: a bitter or better harvest? 1011
- Herbs and essential oils conference and workshop 1004
- Holly Society of America, Inc. 23
- Horticulture in human life, culture, and environment 1929
- Hydroponics and transplant production 514, 755, 5565
- Illinois Specialty Growers Association 4669, 4708, 4712, 4837, 6534
- Illinois State Horticultural Society 4669, 4708, 4712, 4837, 6534
- Implications of 'Global environmental change' for crops in Europe 8854, 9425
- Improvement of indigenous fruit trees of the miombo woodlands of southern Africa 10054
- Innovations and prospects in plant protection 6708, 7420, 7447
- Institute of Food Technologists 4848
- Integrated control in field vegetable crops 1005
- Integrated control of pome fruit diseases 111-113
- Integrated control of soil pests 10673
- Integrated plant protection in stone fruit 3707, 3749, 3753, 3815, 3820, 3830, 3864, 3869-3872, 3903, 5661-5662
- Integration of ruminants into plantation systems in southeast Asia 9072, 9074
- Interactive environmental effects on forest stands 7375
- Interamerican Society for Tropical Horticulture 13, 505, 9130, 9869, 9871, 9877-9878, 9881, 9889, 9893, 9896, 9973-9975, 9978, 9982, 10212, 10826-10828, 10853, 10888-10889, 10901-10902, 10944, 10984, 10987, 11023, 11026
- Interamerican Society of Tropical Horticulture 10945
- International Association for the Advancement of Industrial Crops 10811, 10814-10815
- International conference on acidic deposition 8702, 9521
- International conference on flow injection analysis 10064
- International conference on oil palm 10980
- International conference on polyphenols 10051
- International congress of flavours, fragrances and essential oils 10048-10050, 10186, 10242, 10608, 10698, 10729, 10756, 10764-10765
- International congress on almond 2852
- International congress on plant tissue and cell culture 6495, 6547, 6654-6655, 6953-6954, 6957, 7085, 7260
- International congress on plastics in agriculture 40-42, 318, 332, 356, 483, 506, 747, 1879-1880
- International congress on the science and cultivation of edible fungi 1881, 2334-2336, 2338-2341, 2343-2353, 2355, 2360, 2362, 3332, 3334-3335, 3339-3355, 3357, 3360-3361, 3364-3365, 3367, 3370, 3372, 6974, 6979-6980, 6987
- International Dwarf Fruit Tree Association 16, 71, 78-82, 85-86, 92, 94, 97, 100, 102, 128, 4667, 4713, 4715, 4724-4727, 4748-4755, 4765, 4768-4769
- International germplasm transfer: past and present 6530
- International horticultural congress 346, 514, 533, 755, 7399-7400, 7409,

Conferences *cont.*

- International horticultural congress *cont.* 7425, 7429-7431, 7449, 7489-7490, 7492, 7519, 7529-7530, 7561, 7590, 7636, 7646, 7656, 7712, 7719, 7723, 7740, 7764, 7838, 7858, 7863, 7865, 7868, 7873, 7881, 7901, 7922, 7971, 7981, 7984, 8001, 8008, 8016, 8021, 8023, 8026, 8029, 8037, 8039-8041, 8043, 8076, 8144, 8151
- International meeting on plant lipids 5793-5796, 5916-5918, 5923, 6048, 6131-6132, 6266, 6307, 6680, 6748, 6833, 7131, 7181, 7241, 7250, 7344
- International photosynthesis congress 5544, 6280, 6482, 6765, 6767-6770, 6835, 6862-6863, 6872, 7050, 7121, 7952, 8226, 8520, 8594-8595, 8608-8609, 8611, 8614, 10401, 10404, 10492, 10494-10495, 10505-10506
- International Plant Propagators' Society 1007, 1032, 1438, 1494, 1509, 1514, 1523, 1530, 1546, 1556, 1563, 1588, 1617, 1633, 1640, 1649-1650, 1653, 1656, 1770, 1896, 2036, 2370, 2395, 2429-2430, 2455, 2467-2468, 2475, 2477-2479, 2486, 2489-2490, 2504, 2510, 2522, 4560
- International sago symposium 22, 973-983
- International scientific colloquium on coffee 4599, 4601-4602, 5540, 6400, 6405, 6407-6408, 7292, 7298, 7305-7308, 7310-7311, 8134
- International seaweed symposium 5349, 10809
- International seminar on soilless cultivation technology for protected crops in mild winter climates 8186, 8209-8210, 8427, 8566, 8664-8665, 8683, 8751-8753, 8755, 8846, 8858, 8860-8861
- International seminar on the integrated control of enemies of plants in the Sahel 19
- International Society of Citriculture 825, 1720-1722, 2588, 6314
- International speciality conference on regional photochemical measurements and modeling 1029, 1230
- International symposium on agrotechnics and storage of vegetable and ornamental seeds 470
- International symposium on alliums for the tropics 1283, 4021, 4034-4037, 5779, 5782-5784, 5789-5790, 5797-5815, 5818, 5821, 5826-5832
- International symposium on apricot culture 9120, 9228-9238, 9240-9251, 9253-9263, 10170, 10172-10176, 10178-10185, 10251
- International symposium on biological and environmental reference materials (BERM-6) 6764
- International symposium on crop protection 3058, 3078, 3081, 3178, 3241, 3290, 3503
- International symposium on crop protection: part IV 5604, 6193, 6249
- International symposium on cultivar improvement of horticultural crops 4710, 4818
- International symposium on cultivar improvement of horticultural crops. Part II 2889, 3589
- International symposium on fruit production in the tropics and subtropics 10053, 10307-10308, 10819, 10906
- International symposium on growing media & plant nutrition in horticulture 2797, 2813, 2819, 2821, 3019, 3127-3128, 3171-3174, 3236, 3270-3274, 3277-3278, 3280-3281, 3284, 3286, 3307, 3381, 3383-3384, 3387, 3389, 3391, 3393, 3399, 3404, 3413, 3426, 3444, 3451, 3466, 3475-3478, 3497-3498, 3500, 3504, 3666

Conferences cont.

- International symposium on growing temperate zone fruits in the tropics and subtropics 10088, 10095, 10204, 10213, 10215-10216, 10327, 10349, 10892-10893
- International symposium on horticultural economics 26, 28, 39, 74, 173, 225, 313, 487, 494, 625, 627, 1010, 1055, 1216, 1274, 1528
- International symposium on medicinal and aromatic plants 7400, 7723, 7881, 7984, 8001, 8008, 8016, 8021, 8023, 8026, 8029, 8037, 8039-8041, 8043
- International symposium on new cultivation systems in greenhouse 3288
- International symposium on olive growing 2641-2647, 2651-2652, 4546, 4549, 7243-7245
- International symposium on pear growing 5675
- International symposium on plum and prune genetic, breeding and pomology 1175
- International symposium on postharvest science and technology of horticultural crops 14
- International symposium on postharvest treatment of horticultural crops 144-146, 160, 171, 183, 207, 230, 239, 308, 373, 417, 544, 600, 4933, 6588, 6840, 7228-7229, 7437, 7500, 7650
- International symposium on quality of fruit and vegetables: influence of pre- and post-harvest factors and technology 57, 60-61, 140, 149-151, 166, 170, 180, 182, 184-185, 187, 191-194, 208, 211, 219-222, 224, 246, 253, 256, 264, 300, 345, 361, 396, 400, 416, 418, 459-461, 472, 497-498, 502-504, 540, 542-543, 550, 553, 815-816, 821, 841, 862-863, 887, 908, 920, 1375, 6933
- International symposium on small fruit virus diseases 5697, 6270
- International symposium on soil and substrate infestation and disinfection 1014, 1034, 1047, 1357, 1451, 1666, 3328
- International symposium on soil testing and plant analysis 8219, 8515, 8568-8569, 8638, 8681-8682, 9039, 9043, 9060
- International symposium on the biology of adventitious root formation 32-33
- International symposium on the chemistry of natural products 2358, 5155
- International symposium on the taxonomy of cultivated plants 7725, 7754, 8111
- International symposium on timing field production of vegetables 357, 377, 384, 442
- International symposium on *Vaccinium* culture 233
- International symposium on vegetation stress 8581-8583, 8792
- International symposium on virus diseases of ornamental plants 1450, 1524, 1531, 1567-1568
- International symposium on viticulture and enology 6483, 6688-6689, 7602-7605, 7607, 7609, 7612, 7637, 9376, 9378-9379, 9387, 9399, 9411, 10342
- International workshop on floriculture & nursery industries and environment 1006, 1511-1513, 1515-1516, 1521, 1615
- Iron nutrition in soils and plants 3705, 4509, 5654-5655, 5658-5659, 5698, 5752, 5996-5997, 6313, 6330, 6358, 6416
- Japanese Society for Horticultural Science 10861
- Journée du Mas de Piquet 4917
- Korean Society for Horticultural Science 1008-1009, 2800, 4668

Conferences cont.

- Land and water resources management in the Mediterranean Region 7558, 7733, 7783, 7803-7804, 8095, 8098
- Light-activated pest control 7397
- Management of MFP 6370
- Management of sloping lands in Asia 939
- Massachusetts Fruit Growers' Association 7395
- Measures for mitigation of non-beneficial ecological effects of irrigation 6618, 6752, 6919
- Membrane transport in plants and fungi — molecular mechanisms and control 4168-4169
- Microbial fermentations: beverages, foods and feeds 5470
- Mineral nutrition of deciduous fruit plants 2802, 2823-2826, 2843, 2864, 2867, 2870, 2873, 2875-2881, 2884-2886, 2888, 2890, 2913-2914, 2919, 2921-2922, 2933-2934, 2947-2948, 2950-2953, 2957, 2959, 2968, 2991-2993, 3009, 3031, 3033-3034, 3038, 3041-3045, 3048-3049, 3053-3054, 3607, 3619
- Modification of irrigation schedule of crops due to scarcity of water 6554, 6734, 6742, 6918
- National agricultural plastics congress 17, 43-46, 317, 490
- National Arboricultural Conference 1878, 2458
- National congress on ornamental horticulture 5227, 5237
- New Zealand plant protection conference 20, 3638, 3867, 4101, 9185, 9194-9195, 9296, 9336, 9342, 9475, 9482, 9484, 9544, 9599, 9622, 9693, 9833
- New Zealand tree symposium 4384-4385
- Non chemical weed control 1012, 1035-1036, 1076, 1267, 1286-1287, 1326, 1671, 1949, 2093, 2582, 2735, 3035, 3314
- Non-traditional culture of tree fruit and small fruit crops outside the normal season and new species for economic production 2801
- North American blueberry research-extension workers 7572-7573, 7575-7578
- North Central Weed Science Society 9774
- Northeastern Weed Science Society 9119, 9492
- Northern Nut Growers' Association 10060, 10198, 10245-10246, 10254, 10257-10258, 10734, 10891, 10894
- Nuclear techniques in soil-plant studies for sustainable agriculture and environmental preservation 2594
- Nutrition Society of New Zealand 101
- Open spaces for protection and improvement of the environment. The supply of perennial plants 8185
- Ornamental plant improvement. Classical and molecular approaches 6477, 7021, 7023, 7026, 7030-7031, 7063, 7109
- Packaging and presentation of fresh produce 9124
- Pakistan congress of zoology 2628, 2772, 6517, 6892, 6902
- Peach convention 3710, 3840-3848, 3851, 3855-3856, 3859, 3861-3863, 3881-3882, 3885
- Photosynthesis: from light to biosphere 5543-5544, 6280, 6482, 6765, 6767-6770, 6835, 6862-6863, 6872, 7050, 7121, 7952, 8226, 8520, 8594-8595, 8608-8609, 8611, 8614, 10401, 10404, 10492, 10494-10495, 10505-10506
- Physiological responses of plants to pathogens 6013, 6142
- Plant bioregulators in horticulture 7399, 7409, 7425, 7429-7431, 7449, 7489-7490, 7492, 7519, 7529-7530, 7561, 7590, 7636, 7646, 7656,

Conferences cont.

- Plant bioregulators in horticulture cont. 7712, 7719, 7740, 7764, 7838, 7858, 7863, 7865, 7868, 7873, 7901, 7922, 7971, 7981, 8076, 8144, 8151
- Plant hormone signal perception and transduction 5573-5574, 5977, 6092, 6766
- Plant physiology 10046
- Plant production on the threshold of a new century 3495, 7736, 7810
- Plant-soil interactions at low pH 8363, 8949
- Plantain and banana research and technology training course 3639-3640
- Plantation industry in the industrial era: increasing productivity through effective and efficient management 4568, 4635
- Pollen banks and genetic resources 9899
- Post-harvest treatment of fruit and vegetables: controlled atmosphere storage of fruit and vegetables 2799, 7433-7434, 7499, 7502-7504, 7507-7508, 7510, 7524, 7526, 7552, 7562, 7591, 7782, 8081, 8105
- Post-harvest treatment of fruit and vegetables: modified atmosphere packaging 9156, 9269, 10072, 10420
- Post-harvest treatment of fruit and vegetables: quality criteria 9121, 9155, 9158, 9160, 9216, 9218, 9225-9226, 9298-9300, 9304, 9372, 9448, 9530, 9616-9617, 9917, 9997
- Post-harvest treatment of fruit and vegetables: systems and operations for post-harvest quality 10047, 10073-10076, 10081, 10153, 10169, 10225, 10259, 10286, 10566-10567, 10573-10574, 10580, 10862, 10912
- Postharvest convention 9124
- Postharvest physiology of fruits 4666, 4696-4698, 4707, 4798-4799, 4817, 4819, 4844-4845, 4877, 4894, 4947, 5017, 5040-5041, 5127-5130, 5399, 5403, 5436, 5439, 5442, 5491, 5496, 5521, 10273
- Postharvest physiology of ornamental plants 9647, 9649, 9652, 9658, 9660, 9668, 9675, 9685-9687, 9696-9698, 9700, 9706, 9709, 9746, 9763, 9779, 9787-9788, 9790-9792, 9808, 10624, 10643, 10646, 10705
- Postharvest physiology, pathology and technologies for horticultural commodities 4677, 4704-4705, 4794, 4801, 4875, 5404-5405, 5437, 5487, 5628, 5630, 5641, 6341, 6343, 6590, 6607, 6634, 6658, 6724, 6776, 6838, 6946, 6951, 7192, 7221, 7226, 7251, 7277-7278, 7338
- Postharvest physiology, pathology and technologies for horticultural commodities: recent advances 5578, 5629, 6036, 6338, 6829, 6837, 6947, 6950, 7222-7223, 7394, 7428, 7501, 7824, 7859, 7886, 7892, 7959, 7964-7965, 8082-8083, 8126, 9958
- Postharvest technology for agricultural products in Vietnam 4665, 4699-4702, 5450
- Postharvest treatment of fruit and vegetables: determination and prediction of optimum harvest date of apples and pears 9122, 9203, 9205-9215, 9222, 9227, 9310-9312
- Practice oriented results on use and production of neem-ingredients and pheromones 7398
- Primary and secondary metabolism of plants and plant cell cultures 3711
- Progress in temperate fruit breeding 1992, 2014, 3740, 3756, 3761-3763, 3770-3771, 3800, 3852, 3902, 3908, 3935, 3938, 3959
- Protected cultivation of Solanacea in mild winter climates 476, 516, 518

Conferences cont.

- Quality of soil and plant analysis in view of sustainable agriculture 6512, 6807, 7088
- Quality of soil and plant analysis in view of sustainable agriculture and the environment 7713, 7836, 8219, 8515, 8568-8569, 8638, 8681-8682, 9039, 9043, 9060
- Range Management Society of India 6490
- Rationalization of agronomic practices to reduce environmental impact 5755, 5950, 6011
- Recent advances in plant responses to stress: bridging the gap between science and technology 5545, 5572, 5825
- Reclamation and management of water-logged saline soils 7189
- Regulation of biosynthesis and function of isopentenoids 350
- Research and applications of chemical sciences in forestry 7543
- Robotics in agriculture 6526, 6882
- Rootstocks for fruit crops 3745-3746, 3953, 4498
- Rootstocks, varieties and new enological issues 6483, 6688-6689, 7602-7605, 7607, 7609, 7612, 7637
- Salt management workshop 7393, 7416
- Science and cultivation of edible fungi 7847-7849
- Science for horticultural practice 7455, 7458-7459, 7464, 7478, 7491, 8247, 8249-8250, 8259, 8264, 8271, 8275, 8280, 8310, 8317, 8320, 8330, 8337-8338, 8380-8381, 8386, 9271, 9292, 9341, 9343, 9346-9347, 9353, 9361-9362, 9367, 9419, 9474, 9488, 9490, 9556, 9562, 9564, 9569, 9582, 9587
- Scientific seminar of the Cuban National Institute of Agricultural Sciences 5541
- Seed production and marketing in Asia and the Pacific 5555-5556
- Seed symposium: seed development and germination 15
- Seedling morphological and physiological adaptation to abiotic stress 1013, 1272-1273, 1488
- SERD seminar on selected aspects of the environment 2117
- Sewage sludge: land utilization and the environment 9151, 9722
- Small scale vegetable production and horticultural economics in developing countries 7647
- Society for Experimental Biology 8188
- Soil organic matter management for sustainable agriculture 3636-3637
- Spanish Weed Science Society 7467, 7569, 7686, 7763, 7773, 7834, 8058-8059, 8096-8097, 8983
- State Horticultural Association of Pennsylvania 9162, 9177, 9188
- Strategies for a modern pomology 21, 24-25, 29, 783
- Structure and function of roots 4664, 5045, 5053, 5055, 5058, 5824, 5883, 5907, 5919, 6294, 6415, 9988
- Sumber alam tropika 1774
- Swiss Society for Food and Environmental Chemistry 3129
- Symposium on protected cultivation of Solanacea in mild winter climates 1466
- Symposium on sustainable agriculture 5541
- Symposium on tropical orchards 1003, 1232, 1775, 1821, 1830, 4493, 4569, 4571, 4634
- Targeting and glycosylation of plant secretory proteins 6873
- Technology in viticulture 3708, 3964-3965, 3970-3972
- Tenth international photosynthesis congress 5543

Conferences cont.

- Thrips biology and management 8224, 8352, 8577, 8632, 8747, 8754, 8787, 8935, 8951-8952
- Toward enhanced and sustainable agricultural productivity in the 2000's 6731, 6788
- Towards total quality management in plantations 7341, 9985, 10982
- Trace substances, environment and health 5771
- Trenching and street trees national seminar 1877
- Tuberization 6478, 6775, 6965-6967, 7015, 7022
- Turkish national congress of biological control 2307, 2595, 2660
- UNIDO workshop on essential oil and aroma chemical industries 8183
- United Planters' Association of Southern India 3709
- UPASI scientific conference 2761
- Use of biological control agents under integrated pest management 4352
- Useful tropical plants 877, 6481, 6489, 6560, 7154, 7194, 7258, 7271, 7283-7287, 7326, 7348
- Using plasticulture technology for the intensive production of vegetable crops 1895, 2803, 3072, 3075
- Utilisation of oil palm tree and other palms 3680
- Vegetation management in forestry, amenity and conservation areas: managing for multiple objectives 8867
- Vegetation stress 9123, 9527, 9537-9538, 9540, 10477, 10721
- Visible and UV-B high light stress 6866-6867
- Waste stabilisation ponds and the reuse of pond effluents 4989
- Weed Science Society of America 18, 8187
- Workshop on biofertilizers in the tropics 5541
- World Congress of Soil Science 1843, 8221-8222
- Yield response to water as affected by irrigation schedule 5562, 5606, 5656, 5754, 5770, 6327
- Zentralstelle für Agrardokumentation und -information 8198
- Coniella diplodiella*, grapes 6709, 8470, 10337
- Conifer needles**, utilization, soil amendments, *Zingiber officinale* 10753
- Conifers** (see Ornamental conifers)
- Coniothyrium minitans* control
 - of *Sclerotinia sclerotiorum*
 - Carum carvi* 1673
 - lettuces 5846
- Conopomorpha cramerella*, cocoa 891, 9018
- Consolida armeniaca*, flowers, colour, biochemistry 6110
- Constantia*, taxonomy, nomenclature 998
- Container grown plants**
 - growing media, characteristics 2465
 - herbicides, application methods 3470
- Containers**
 - size
 - Asparagus* 10511
 - Bougainvillea butiana* 5261
 - lettuces 6777
 - melons 6411
 - peaches 8347
 - Pleurotus* 10591
 - watermelons 1811
 - treatment, ornamental woody plants 2467
 - types
 - Acer rubrum* 9795
 - bedding plants 8744
 - Coreopsis verticillata* 4415
 - cucumbers 5892
 - ornamental woody plants 2466, 3467
 - Plumbago auriculata* 4415
 - Quercus shumardii* 6235
 - strawberries 5724
 - Swietenia mahagoni* 5296
- Contarinia citri*, mangoes 4627

- Contarinia nasturtii*, Chinese cabbages 3079
- Contarinia quinquenotata*, *Hemerocallis* 2393
- Convallaria majalis*
 - ecology, Russia 2537
 - flowers, fragrance, biochemistry 10608
- Convolvulus althaeoides*, as weeds, olives 8097
- Convolvulus arvensis*
 - as weeds
 - apples 8269
 - mandarins 8058
 - onions 5820
 - ornamental woody plants 7071
- Conyza*, as weeds, olives 7242
- Conyza bonariensis*, as weeds, olives 7242
- Conyza canadensis*
 - as weeds
 - Asparagus* 5990
 - carrots 6955
 - strawberries 2064
- Cookeina sulcipes*
 - composition 3357
 - mycelium, growth 3357
- Cooling**
 - equipment
 - fruit crops 59
 - vegetables 59
 - models
 - figs 1255
 - grapes 1255
 - techniques
 - apples 7498
 - broccoli 2188
 - fruit crops 7438
 - mandarins 8079-8080
 - tomatoes 8079-8080
- Copper**
 - biochemistry, tomatoes 3293
 - composition
 - algae 8219
 - apples 8219, 8263
 - bananas 9935
 - Citrus* 8219
 - coffee 9029
 - edible fungi 4265, 6969
 - Gerbera* 8219
 - Hibiscus* 9428
 - Ilex paraguariensis* 10788
 - Juglans* 10261
 - kiwifruits 7559
 - Lentinula edodes* 5149
 - lettuces 10412
 - mangoes 1836
 - Oenothera biennis* 1688
 - Oenothera paradoxa* 1688
 - olives 3620
 - Syzygium jambos* 9110
 - Talinum triangulare* 6968
 - temperate fruits 10069
 - vegetables 9428
 - walnuts 8392
 - deficiency
 - cucumbers 7734
 - Rosa damascena* 7148
 - tomatoes 8672, 8674
 - determination
 - dates 4537
 - guavas 2717
 - fertilizers
 - cauliflowers 4691
 - limes 8065
 - onions 4042, 7670
 - pawpaws 1841
 - Petroselinum crispum* 4691
 - roses 8862
 - spinach 4691
 - Tagetes erecta* 3421
 - tea 6456
 - metabolism
 - biochemistry, *Rosa roxburghii* 4403
 - cadmium, cabbages 7708
 - cultural methods, peaches 9291
 - development, carambolas 6464
 - fertilizers, apples 1954, 2885
 - iron, onions 6754
 - irrigation
 - apples 1956
 - mushrooms 9631
 - mycorrhizas, *Cymbopogon winterianus* 7141

Copper *cont.*

- metabolism *cont.*
 - phosphorus
 - Citrus limonia* 8060
 - mandarins 8060
 - potassium, apples 4772
 - rootstock scion relationships
 - grapefruits 7196
 - oranges 7196
 - pistachios 3900
 - salinity, grapes 8459
 - seasonal variation
 - Asparagus* 3226
 - Protea* 741
 - walnuts 8391
 - soil compaction, *Cymbopogon winterianus* 7141
 - soil pH, *Vaccinium* 1200
 - storage, apples 4732
 - zinc, *Hibiscus rosa-sinensis* 1648
- plant nutrition
 - aubergines 5082
 - cashews 1794
 - cucumbers 3174
 - Hebe* 3505
 - lettuces 8535
 - mandarins 4506
 - olives 863
 - oranges 9889
- requirements
 - analysis
 - cabbages 4094
 - cherries 2935
 - Litchi* 10876
- responses
 - Acer rubrum* 9795
 - Bougainvillea buttiana* 5261
 - Coreopsis verticillata* 4415
 - grapes 8483
 - ornamental woody plants 2467, 3467
 - Plumbago auriculata* 4415
 - pot plants 5219
 - Quercus shumardii* 6235
 - tea 11002
- toxicity
 - cauliflowers 4691
 - lawns and turf 10670
 - ornamental plants 2374
 - Pelargonium hortorum* 4291
 - Petroselinum crispum* 2146, 4691
 - Phaseolus coccineus* 2232
 - Phaseolus vulgaris* 6848
 - spinach 2146, 4691
 - Tagetes patula* 9692
- translocation, tomatoes 5113
- uptake
 - beetroots 2113
 - cucumbers 5895
 - Datura fastuosa* 7163
 - garlic 4025
 - grapes 3051
 - lettuces 4077
 - mushrooms 3345
 - Petroselinum crispum* 2146
 - radishes 2113
 - spinach 2146
 - spinach beets 351, 3122
 - strawberries 3940
 - vegetables 325, 5771, 9427
- Coprinus cinereus**
 - biochemistry 573
 - geotropism 8728
- Coprinus comatus**, composition 563
- Coptis japonica**, *in vitro* culture, biochemistry 1681
- Corchorus olitorius**, leaves, development, light 6056
- Corchorus tridens**
 - seeds
 - germination
 - seed treatment 4261
 - temperature 4261
- Cordia alliodora**
 - as shade plants
 - cocoa 2681
 - coffee 8139
- Cordyline australis**, pollination, compatibility 10682
- Cordyline fruticosa**, *in vitro* culture, culture media 680, 3376

Coreopsis grandiflora

- flowers
 - initiation
 - photoperiod 9683
 - temperature 9683
 - herbicides, tolerance 6085
 - shoots, development, plant growth regulators 1555

Coreopsis lanceolata

- flowers
 - initiation
 - photoperiod 9683
 - temperature 9683

Coreopsis verticillata, planting stock, production, containers 4415**Coriander** (*see Coriandrum sativum*)**Coriandrum sativum**

- cultivars
 - assessment, India 4435, 7132
 - disease resistance 2528
- disease control, *Erysiphe polygoni* 2528
- fertilizers
 - calcium 3522
 - nitrogen 3083, 3522, 4434, 5300-5301, 7988, 8004, 9826, 10748, 10757
 - phosphorus 3083, 3522, 4434, 5300, 7988
 - potassium 3083, 3522, 4434
- harvesting, frequency 5300
- herbicides, tolerance 8500
- in vitro* culture, propagation, micropropagation 10749
- irrigation
 - frequency 4434
 - responses 5301
 - water, salinity 7139, 10745
- manures 3083
- pollution, cadmium 764
- salinity, responses 10746
- seedlings
 - biochemistry, salinity 10746
 - emergence, seed treatment 9816
- seeds
 - composition 3521
 - production
 - cultivars 7132
 - cultural methods 4434, 7988
 - sowing
 - sowing date 10757
 - spacing 10757
 - treatment 9816
 - viability, tests 6246
- weed control 1671
- yields, diseases 6245

Corky bark, grapes 277**Corms**

- development
 - histology
 - Freesia* 6122
 - Freesia refracta* 7015
 - Gladiolus* 6122
 - spacing, *Gladiolus* 6124
- dormancy, physiology, *Gladiolus tubergenii* 1564
- production
 - cultural methods
 - Gladiolus* 7016, 7890-7891, 9699, 10642
 - Liatris spicata* 5207
 - equipment, *Gladiolus* 9702
- sprouting, temperature, *Freesia* 8786
- treatment
 - cold, *Freesia* 1562
 - fungicides, *Gladiolus* 9701
 - plant growth regulators
 - Freesia* 1562
 - Gladiolus* 8788

Cornus capitata, wild plants, edible species 10262**Cornus florida**

- bark, biochemistry, seasonal variation 6521
- disease control, *Discula destructiva* 10733
- frost, injuries 5284
- stems, ultrastructure 9786

Cornus kousa

- cultivars, characteristics, USA 9769
- disease control, *Discula destructiva* 10733

Cornus mas, fruits, composition 6253**Cornus nuttallii**, disease control, *Discula destructiva* 10733**Cornus sanguinea**, fruits, set, assessment 9798**Cornus sericea**, irrigation, requirements, determination 7078**Coronopus didymus** 7702

as weeds, cabbages 7702

Corozo (*see also* Oil palms)**Correa**, cultivars, characteristics, Australia 9642**Correa baeuerlenii**, characteristics 2370**Correa reflexa**, cuttings, rooting, carbon dioxide 4388**Corticium rolsfii**

- apples 8255
- Cannabis sativa* 6275
- Capsicum* 6901
- Glaucium flavum* 10627
- Sandersonia aurantiaca* 9717
- strawberries 5732
- tomatoes 8677
- Zingiber officinale* 7137

Corybas iridescens, taxonomy, new taxa 8836**Corybas orbicularis**, taxonomy, morphology 8836**Corybas papa**, taxonomy, new taxa 8836**Corybas rivularis**, taxonomy, typification 8836**Corylobium avellanae**, hazelnuts 1140**Corylus** (*see also* Hazelnuts)**Corylus avellana**, grafting, unions, treatment 10716**Corylus colurna**, as rootstocks, hazelnuts 1139, 9271**Corylus maxima**, cultural methods, UK 3824**Corymborkis veratrifolia**, flowers, anatomy 7927**Coryphantha hesteri**, geographical distribution 9738**Cosmopolites sordidus**, bananas 885, 9938**Cosmos bipinnatus**

- cut flowers, production, USA 1529
- seedlings, development, ultraviolet radiation 3411
- seeds
 - production, assessment 4298
 - sowing, sowing date 8765
 - treatment 1028

Costa Rica

- bananas, production 8115
- coffee, cultivars 5476

Costus speciosus

- plant growth regulators
 - 2,4-D, responses 2542
 - ethephon, responses 2542
 - maleic hydrazide, responses 2542

Côte d'Ivoire

- bananas
 - cultural methods 9925
 - research 9925
- oil palms, climate 1837
- onions, production 5800
- tropical fruits, pests, surveys 4571

Cotinus coggygia

- cuttings, sources, cultural methods 9770
- pollution
 - exhaust gases 10717
 - lead 10717

Cotoneaster bradyi, taxonomy, nomenclature 2497**Cotoneaster dammeri**

- fertilizers 6187
- herbicides, injuries 8844-8845
- irrigation, systems 8873
- soiless culture, growing media 8873
- weed control 8845

Cotyledons, development, ultraviolet radiation, *Cosmos bipinnatus* 3411**Coumarins**

- characterization
 - Citrus hassaku* 6335
 - satsumas 5394
- composition
 - Ammi majus* 5331
 - Dipteryx odorata* 2572
 - Tuber* 10602
- metabolism
 - plant growth regulators, celery 10581

- Coumarins** *cont.*
 metabolism *cont.*
 storage, carrots 7841
 responses
 carrots 7837
Opuntia ficus-indica 9921
 taxonomy, *Peucedanum* 6288
- Courgettes** (see Marrows)
- Couropita guianensis**, seeds, composition 9108
- Cover crops**
 cultural methods
 apples 9185, 10113
 grapes 9388
 olives 8983
 temperate fruits 2842, 8234
 responses
 apples 1076, 2869, 2879, 3778, 4764, 7466, 8264
Asparagus 2263, 9543
 bananas 1783
 broccoli 9424, 9476
 cabbages 7710
 coconuts 9950
 coffee 7296
 grapes 267, 2093, 3034, 3968, 9397
 hazelnuts 2940
Hevea 2747, 9074, 10997
 hops 9841
 lettuces 9424
 mandarins 6323
 olives 8096
 peaches 9287-9289
 tea 953
 tomatoes 500, 7806, 9424
 tropical crops 3637
- Cowberries** (see *Vaccinium*)
- Cranberries** (see *Vaccinium*)
- Craspedia**
 seeds
 germination
 light 594
 seed treatment 594
 temperature 594
- Crassocephalum crepidioides**, as weeds, tea 9091
- Crassulacean acid metabolism** (see Photosynthesis, CAM pathway)
- Crataegus**, cultivars, characteristics, China 9331
- Crataegus laevigata**, cultivars, clones 4386
- Crataegus phaenopyrum**
 plant water relations, measurement 6210
 planting stock, storage 6210
- Crataegus pinnatifida**, production possibilities, China 8393
- Crateva religiosa**, *in vitro* culture, propagation, micropropagation 5337
- Cress**
 geotropism 4123, 8557
 gravity, responses 7714
 plant nutrition, iodine 7713
 roots, physiology 4123
 seeds, composition 1265
 zero gravity, responses 5879
- Cricanemella xenoplax**
 grapes 7599
 peaches 2961
- Crinipellis perniciosa**
 cocoa 6390, 9017
Theobroma grandiflorum 10027-10028
- Crinum macowanii**, *in vitro* culture, propagation, micropropagation 4333
- Cristulariella moricola**, ornamental plants 9648
- Crithmum maritimum**, plant, biochemistry, seasonal variation 8916
- Croatia**
 apples
 economics 7462
 production 10092
 cut flowers
 production possibilities 9640
 research 9640
 grapes, production 1216
 seeds, production 1051
- Crociodolomia binotalis**, cabbages 1337
- Crociodolomia pavonana**, cabbages 3146
- Crocus**, cultivars, assessment, UK 10639
- Crocus biflorus**, taxonomy, new taxa 1560
- Cronartium ribicola**, black currants 8402
- Crossandra infundibuliformis**
 irrigation, water, composition 8874
 leaves, areas, assessment 4416
 plant, composition 4409
- Crotalaria christaniflora**, as cover crops, temperate fruits 5585
- Crotalaria medicaginea**, seeds, development, models 5050
- Croton lobatus**, as weeds, *Hevea* 940
- Croton variegatus** (see *Codiaeum variegatum*)
- Crowea**, cultivars, characteristics, Australia 9642
- Cruciferae** (see Brassicaceae)
- Cryophytum crystallinum** (see *Mesembryanthemum crystallinum*)
- Cryphonectria parasitica**, chestnuts 168, 1994, 10199
- Cryptolaemus montrouzieri**
 control
 of *Planococcus citri*, *Citrus* 5386
 of *Rastrococcus iceryoides*, mangoes 2722
- Cryptomyzus ribis**, horticultural crops 8384
- Cryptosporiopsis**, almonds 8239
- Cryptotaenia japonica**
 disease control
Fusarium oxysporum 9624
Rhizoctonia solani 9624
 seeds, composition 1265
- Ctenopseustis obliquana**
 apples 9195
 peaches 9296
- Cuba**
Cucurbita moschata, cultivars 6809
 tomatoes, cultivars 3255, 5086
- Cucumber mosaic cucumovirus**
Capsicum 2280
 cucumbers 1349
Lagenaria siceraria 5890
Lilium longiflorum 10649
Lilium maculatum 10649
 melons 3668
 watermelons 1817
- Cucumbers**
 allelopathy 1266, 8044
 chloroplasts
 biochemistry 1367, 4148, 10471
 physiology, light 7738
 ultrastructure 3183, 4143, 5022
 circadian rhythm 409
 cold
 injuries 9501
 resistance
 assessment 8580
 biochemistry 10474
 physiology 9517
 plant growth regulators 8208
 plant nutrition 9502
 seed treatment 1352
 responses 4017, 4143, 4146, 5025, 6810, 9505
 tolerance 4145, 9432
 treatment 9501
 cotyledons
 biochemistry 3186, 4149, 5024, 5912
 germination 5014
 light 4151
 plant growth regulators 5029, 5910
 temperature 6829
 ultraviolet radiation 5026
 development, temperature 5026, 6829, 9516
 greening
 light 4151
 plant growth regulators 5028
 physiology 411
 senescence 1368
 cropping systems, rotations 3179, 5901, 6813
 cultivars
 assessment
 Brazil 7405
 Colombia 7642
 Denmark 7727
 characteristics
 China 1348-1350, 3163
 Russia 1351
 disease resistance 1348-1350, 4126, 7736
- Cucumbers** *cont.*
 cultivars *cont.*
in vitro culture 5888
 storage 7726
 disease control
Botrytis cinerea 8574
Colletotrichum orbiculare 8575
Fusarium oxysporum 8576
Fusarium oxysporum f.sp. *cucumerinum* 8576, 9512
Penicillium 6838
Phomopsis sclerotioides 5106
Pseudomonas syringae pv. *lachrymans* 3177, 5898
Pseudoperonospora cubensis 1361, 4140, 5020, 8575, 9511
Pythium aphanidermatum 1359, 10472
Pythium ultimum 1047
Rhizoctonia solani 8571
Sclerotinia sclerotiorum 8575
Sphaerotheca fuliginea 1358, 1360, 3178, 5899-5900, 6819, 7736, 8573
 zucchini yellow mosaic potyvirus 3176
 disorders
 chilling injury 5039, 6829, 6837, 6839
 soft neck 418
 drought, responses 5906
 economics
 Argentina 3723
 Germany 5767
 fertilizers
 magnesium 9508
 nitrogen 9508
 phosphorus 4137-4138, 6818-6819, 9508
 potassium 6819, 9508
 sulfur 4138
 flowers
 initiation
in vitro culture 3188
 physiology 10479
 sex, plant nutrition 6816
 fruits
 abscission, physiology 5577
 biochemistry 8501
 colour, light 5017
 composition 2223
 development
 biochemistry 1369
 parthenocarp 1371
 physiology 1371
 temperature 3190
 mechanical properties, assessment 6841
 quality, assessment 2222
 ripening, physiology 5577
 fungicides
 determination 528
 residues 419
 responses 5018
 grading, equipment 10483
 grafting
 cultural methods 4935
 equipment 399, 8564
 techniques
 mechanical methods 10464
 seedlings 398
 growing media
 characteristics 4130
 sterilizing 1357
 harvesting
 equipment 6033, 6741
 harvesting date, forecasting 5924
 heat
 responses 9432
 tolerance 5027
 herbicides
 injuries 6814, 9506
 responses 3082, 3720
 tolerance 3071
in vitro culture
 culture media 3167, 6836, 9420
 explants, sources 5893
 histology 2215
 organogenesis 5888, 10478
 physiology 3188, 5919, 10478

Cucumbers cont.*in vitro* culture cont.

- propagation, micropropagation 1354, 2200, 5893, 6811
- protoplasts 1354
- responses, cultivars 5888
- somaclonal variation 9503
- somatic embryogenesis 1354, 2215, 3167-3168, 5888, 6836

insecticides

- metabolism 1418
- residues 3181

irrigation

- carbon dioxide, application 9419
- requirements, determination 9507
- water
 - salinity 400
 - sources 5773

leaves

- biochemistry 9518
- plant growth regulators 5911
- ultraviolet radiation 8582
- physiology 5848

magnetism, responses 8584

mitochondria, ultrastructure 5022

mulching, responses 1047, 3720

mycorrhizas 402-403, 5018

nutrients, requirements, analysis 323-324

pest control

- Aleyrodidae 2307
- Aphididae 2307, 7737
- Aphis gossypii* 407-408, 6825, 7649
- Aphis nasturtii* 7649
- Bemisia argentifolii* 5778
- Bemisia tabaci* 1363, 6826, 9513-9514
- Frankliniella occidentalis* 2208, 5903, 6824, 8577
- Liriomyza bryoniae* 4230
- Macrosiphum euphorbiae* 3285
- Meloidogyne* 2207, 3179, 6821-6822
- Meloidogyne incognita* 405, 522, 5901
- Myzus persicae* 3285, 7649
- Polyphagotarsonemus latus* 3285
- Spain 2116
- Tetranychidae 2307
- Tetranychus cinnabarinus* 1362
- Tetranychus urticae* 2831, 5902
- Thrips palmi* 8577
- Thrips tabaci* 6824
- Trialeurodes vaporariorum* 1365, 3285, 4141, 5903, 10367

photosynthesis

- cultural methods 401
- light 3733
- temperature 3733

plant

- biochemistry 2213, 5918, 8226
- temperature 7740
- ultraviolet radiation 8583
- composition 2206, 9152
- development, plant extracts 416
- physiology 5906
- reviews 2210

sex, plant growth regulators 4153

plant growth regulators

- brassinosteroids, responses 5031
- epibrassinolide, responses 413, 2211
- ethylene

metabolism 6026

responses 7742

2-KhEFK, responses 8212

plant nutrition

- cadmium 7735
- cerium 10471
- deficiency 7734
- iron 2205, 4139, 5896, 9509
- nitrogen 1357, 4942, 6816-6817, 8568-8569
- phosphorus 4942, 8568-8569
- potassium 4942, 8568-8570
- rubidium 8570

plant water relations

- assessment 6025
- water stress 5094, 5906

planting, spacing 10466

pollution

- cadmium 9509, 10467
- exhaust gases 9505
- industrial wastes 3170

Cucumbers cont.

pollution cont.

- lead 1355, 5894-5895, 9509
- ozone 9505
- sulfur dioxide 3170
- processing, quality, assessment 2222
- production
 - China 1347
 - USA 4934

production possibilities, USA 8491

protected cultivation

- cultivars 7727
- cultural methods 1356, 3496
- irrigation 7733
- models 5094
- pest control 5777, 6824-6826, 7649
- plant nutrition 323
- transpiration 5094

pruning, responses 401, 6828, 10466

reports, Belgium 1884, 1888, 9127

research, USA 1346

respiration

- carbon dioxide 4947
- temperature 4017

rhizosphere, microorganisms 4136

roots

- biochemistry 1366, 2214
- plant nutrition 2205
- temperature 410
- development, growing media 8567
- physiology 5907

rootstock scion relationships

- physiology 10479
- temperature 4131

rootstocks, disease resistance 5106

salinity, responses 400, 2206, 6026

sap, composition 4131, 8570

seedlings

- biochemistry 2212, 4148, 5034, 5905, 5916
- light 6835
- temperature 6810
- development

assessment 5021

biochemistry 8563

in vitro culture 4129

light 412

models 4130

seed treatment 1352

soil conditioners 10463

temperature 5027, 9516

ultraviolet radiation 8581

emergence, soil structure 1269

greening, biochemistry 4152

physiology 412, 5915

production

cultural methods 5892

growing media 4130

treatment 9501

seeds

development

- assessment 1370
- biochemistry 4156
- temperature 3190

germination

- biochemistry 5016, 7732, 8563
- harvesting date 2220
- in vitro* culture 4129
- light 5016
- plant water relations 5015-5016
- seed treatment 3191
- soil conditioners 10463
- temperature 5015, 6810

production

- cleaning 3191
- extraction 2219
- harvesting date 2220
- quality, harvesting date 2220
- sowing, equipment 6726
- treatment 1352, 3191, 5891, 5910, 7643, 7730

vigour, tests 5088

soil amendments 10468

soil compaction, responses 2112

soil conditioners, responses 10463

soil solarization 1047

soil water, responses 5015

soilless culture

- cultivars 7727
- disease control 10472
- growing media 3171-3174, 8566-8567

Cucumbers cont.

soilless culture cont.

- nutrient solutions
 - composition 10472
 - temperature 4131
- systems
 - hydroponics 4135, 6737
 - nutrient film techniques 1032, 3284

storage

- biochemistry 2223, 6839
- disorders 418
- humidity 8502
- physiology 10079
- quality

cultivars 7726

light 5017

plant extracts 416

systems

- controlled atmosphere storage 10079
- modified atmosphere storage 6838
- treatment 416, 5039, 5630, 6837

surveys, USA 6807

taxonomy, morphology 3161

tendrils, movement, magnetism 8584

translocation

- physiology 6828
- source sink relations 5919

transpiration

- cultural methods 401
- determination 6739
- models 5094

trichomes 4141

weed control 8494

wounds, physiology 5915

yields, correlation 2221

Cucumeropsis edulis*, seeds, composition 2713**Cucumis* (see also Cucumbers; Melons)**

taxonomy, morphology 3161

Cucumis anguria*, *in vitro* culture, propagation, micropropagation 2200**Cucumis metuliferus***

- geographical distribution 7724
- wild plants, edible species 7724

Cucumis prophetarum*, characteristics 10773**Cucurbita* (see also Marrows; Pumpkins; Squashes)**

cultivars, assessment, USA 7728

production, Papua New Guinea 312

seeds, biochemistry 415

surveys, Papua New Guinea 312

Cucurbita ficifolia

as rootstocks, cucumbers 4131, 5106

cultivars, assessment, Mexico 5013

electrical properties, physiology 6831

roots, biochemistry, temperature 410

seeds, germination, biochemistry 397

Cucurbita foetidissima*, characteristics 10773**Cucurbita maxima***

characteristics 10773

cotyledons, biochemistry 10476

cultivars

assessment

Brazil 3162

Egypt 4128

characteristics, USA 2198

storage 10482

cultural methods

Australia 2196

Netherlands 2195

fruits

maturity, assessment 5037

mechanical properties, measurement 5037

quality

harvesting date 3192

maturity 3192

storage 3192

hybrids, assessment, Brazil 3162

in vitro culture

biochemistry 5920

cell suspensions 5913

pest control, *Aphis gossypii* 3180

plant, biochemistry 5032

plant nutrition

aluminium 2204

cadmium 10364

calcium 2204

phosphorus 2203

- Cucurbita maxima* cont.**
 plant nutrition cont.
 zinc 2203
 seeds, biochemistry 3185, 5033
 shoots, vascular system 5904
 storage
 diseases 3193
 quality, cultivars 3193, 10482
- Cucurbita maxima* × *Cucurbita moschata***
 as rootstocks
 cucumbers 10479
 watermelons 4607
 plant growth regulators, growth inhibitors, composition 10479
- Cucurbita moschata***
 as rootstocks
 cucumbers 398
 watermelons 4607
 characteristics 10773
 chloroplasts, biochemistry 9519
 cotyledons
 biochemistry
 light 9519
 temperature 9519
 cultivars
 assessment
 Argentina 5889
 Bangladesh 10461
 Cuba 6809
 Egypt 4128
 identification 2199
 storage 10482
 cultural methods
 Australia 2196
 Netherlands 2195
 fertilizers
 nitrogen 3169
 phosphorus 3169
 potassium 3169
 flowers, sex, cultivars 10461
 fruits
 composition 2199, 8586
 quality
 harvesting date 3192
 maturity 3192
 storage 3192
 set, assessment 2218
 size, assessment 2218
 leaves, composition 2199
 planting, planting date 2218
 seeds
 composition 1265
 sowing, spacing 3169
 storage
 diseases 6840
 quality, cultivars 10482
- Cucurbita pepo***
 allelopathy 8211
 characteristics 10773
 chloroplasts, composition 6740
 cold, resistance, physiology 7739
 cotyledons, biochemistry, plant growth regulators 5030
 cultivars
 assessment, Egypt 4127-4128
 characteristics 5012
 disease resistance 5887
 nomenclature 7725
 cultural methods
 Australia 2196-2197
 Netherlands 2195
 disease control, viruses 5897
 disorders, chilling injury 417, 5040-5041, 5925
 electrical properties, temperature 5908, 7739
 flowers, sex, plant growth regulators 4154
 fruits, composition 5923
in vitro culture, somatic embryogenesis 1353, 3187
 irrigation, nematicides, application 1415
 leaves
 biochemistry 5035, 10477
 plant nutrition 8501
 ultrastructure 9967
 vascular system 9967
 manures 8670
 mulching, materials 2300, 5897
 nectar 5921
 nectaries 5921, 8585
- Cucurbita pepo* cont.**
 pest control
 Aphis gossypii 1364
 Bemisia tabaci 1270, 1364
 Diaphania hyalinata 1364
 Diaphania nitidalis 1364
 Meloidogyne incognita 1415
 Thrips palmi 1271
 photosynthesis, photoinhibition 5023, 10473
 plant, biochemistry 4150
 plant growth regulators
 abscisic acid, responses 4142
 auxins, physiology 5909
 pollen
 development, histology 4155
 morphology 2217
 tubes, development 2216
 pollination, pollinators, Apidae 5921
 pollution, ozone 9504
 reports, Belgium 9127
 respiration, physiology 3184
 roots
 cytology 8579
 development, anatomy 3182
 physiology 3184
 salinity, responses 5019
 seedlings
 biochemistry 6827, 10475
 physiology 2209
 seeds
 germination
 biochemistry 10486
 seed treatment 9500
 storage 9500
 storage, moisture content 7729
 treatment 10490
 vigour
 seed treatment 9500
 storage 9500
 shoots, vascular system 5904
 soil amendments 325
 storage
 biochemistry 417, 5040-5041, 5925
 disorders 417, 5040-5041, 5925
 losses 10482
 systems, cold storage 5925
 tillage, minimum tillage 8565
- Cucurbitaceae**
 disease control
 Pseudoperonospora cubensis 8572
 USA 9510
 zucchini yellow mosaic potyvirus 3176
 economics, Australia 3160
 frost, injuries 4588
 pest control, USA 9510
 plant, composition 4019
 reports, Australia 8189
 shoots, development, phenology 7424
 surveys, Russia 7406
 translocation, source sink relations 8184
 weed control 9510
- Culcasia seretii***, cultural methods, UK 681
- Culinary herbs**
 books 1859, 2791, 10037
 conferences 1004
 manures 3520
 organic culture, books 2787
 pest control, Germany 6083
 production, Germany 8887
 production possibilities, India 5308
 protected cultivation, pest control 6083
 reports
 Belgium 1884
 Finland 6485
- Cumin** (see *Cuminum cyminum*)
- Cuminum cyminum***
 disease control, *Fusarium oxysporum* f.sp. *cuminum* 745
 fertilizers, nitrogen 1663
in vitro culture, somatic embryogenesis 7989
 irrigation, responses 1663
 salinity, responses 10746
 seedlings, biochemistry, salinity 10746
 seeds
 composition 3521
 mechanical properties, assessment 9817
 moisture content 9817
- Cuminum cyminum* cont.**
 seeds cont.
 production, cultural methods 1663
 viability, tests 6246
 soil solarization 745
- Cupressocyparis leylandii***
 leaves, anatomy 9773
 planting stock, production, cultural methods 3466, 3475-3476
 shoots, anatomy 9773
- Cupressus***, pest control, Coleoptera 1622
- Cupressus arizonica***
 nutrients, requirements, analysis 3478
 planting stock, production, cultural methods 3478
 soilless culture, plant nutrition 1621
- Cupressus sempervirens***
 fertilizers 9771
 seedlings
 development
 growing media 9772
 light 9771
- Curculigo capitulata***
 ornamental value 1018
 wild plants, edible species 1018
- Curculio caryae***, pecans 4847
- Curculio nucum***, hazelnuts 1140
- Curcuma longa***
 cropping systems
 agroforestry 10750
 intercropping 7990
 cultivars
 assessment
 Bangladesh 7133
 India 1665, 6247, 7134, 9819
 cultural methods, India 8917, 10066
 fertilizers
 nitrogen 1664
 potassium 9818
 intercropping
 mangoes 7324
 onions 7990
 pest control
 Meloidogyne incognita 8893
 Nematoda 3726
 reviews 7986
- Currants** (see also Black currants; Red currants; White currants)
 fruits, composition 10069
 storage
 systems
 cold storage 10263
 controlled atmosphere storage 10263
- Cuscuta***
 as weeds
 horticultural crops 9136
 Vicia faba 430
- Cuscuta campestris***, as weeds, *Hevea* 6444
- Cuscuta reflexa***, fennel 6262
- Cut flowers**
 biochemistry
 chrysanthemums 605
 Freesia 9696-9697
 Gladiolus 636
 breeding, *Gerbera* 6996
 cultivars
 carnations 3382
 Grevillea 8879
 roses 5268, 7959
 development
 light, *Heliconia psittacorum* × *Heliconia spathocircinata* 7029
 physiology, roses 9787
 plant growth regulators, *Gypsophila paniculata* 4303
 storage, *Iris* 10646
 temperature
 Gypsophila paniculata 4303
 Heliconia psittacorum × *Heliconia spathocircinata* 7029
 disease control, roses 4404-4405, 7097
 drying
 carnations 5162
 Darwinia 9801
 Gerbera 5162
 roses 5162
 economics
 Brazil, roses 7958
 Europe, Orchidaceae 10695

Cut flowers cont.

economics cont.

North America, Orchidaceae 10695
handling, ornamental herbaceous plants 9653

harvesting

Banksia hookeriana 7103
Protea 9809
roses 8864

leakage

chrysanthemums 9698
Freesia 9698

marketing

Australia, wild plants 2367
Germany 3379
Taiwan 2376

packing, roses 728

pest control

Alpinia purpurata 653
carnations 8747
Dendrobium 2443
insects 591
ornamental plants 591
roses 7963

physiology, *Freesia* 9698

plant water relations

Iris 6128
ornamental plants 9790
roses 8864, 9789-9790

preservatives

Antirrhinum 6087
Callistephus chinensis 3406
carnations 600, 1535-1536, 3385, 4283-4284, 5167, 5575, 6090, 6092, 7431, 7865, 9650
Chamelaucium uncinatum 1643
chrysanthemums 2381, 2385, 5172, 6096, 8749, 10621
Cymbidium 10701
Dendrobium 10705
Eustoma grandiflorum 8771
Freesia 9698
Gerbera 9650
Gladiolus 637, 3431
Gypsophila 9650
Hippeastrum 1575
Iris 6128
Ixia 659
Leucadendron 2508
Lupinus hvardii 616
ornamental plants 8742
Paeonia 3419
Penstemon hartwegii × *Penstemon cobaea* 7431
Phlox paniculata 2397
Polianthes tuberosa 8795
roses 1635, 4283, 4407, 6207, 7965-7966, 9650
Strelitzia reginae 7886
Thalictrum delavayi 10635

production

Australia

Thryptomene calycina 7126
wild plants 2367

books, roses 6475

cultural methods

Alstroemeria 1570, 7025
Anthurium andraeanum 3404
Banksia 1639
Buddleja davidii 6236
carnations 3383, 4276, 10613-10614
Celosia argentea var. *plumosa* 1550
Chamelaucium 4276, 8869
Chamelaucium uncinatum 1642, 2494
chrysanthemums 1538, 2381, 3390-3391, 5170-5171
Dahlia pinnata 4320
Dodecatheon meadia 3412
Eremurus altaicus 6134
Eryngium 5184
Eustoma grandiflorum 3414
Gaillardia 7006
Gerbera 606, 3395, 8751-8753, 9667, 10622
Gladiolus 635, 7016, 7890-7891, 8788, 10642
Gypsophila 613
Gypsophila elegans 5185

Cut flowers cont.

production cont.

cultural methods cont.

Gypsophila paniculata 3416
Ixodia achillaeoides 7112
Jasminum sambac 717
Lilium 7896
Limonium 7008
ornamental herbaceous plants 9653
ornamental plants 1513
Ornithogalum arabicum 3439
Polianthes tuberosa 663, 7905-7906, 9715, 10660, 10663
Ranunculus 4276
roses 2487, 3497, 4276, 5270, 5272, 6197, 6199-6200, 7960, 8859, 8862
Salix chaenomeloides 6236
sunflowers 9688
energy requirements 6498

Israel

Chamelaucium uncinatum 4302
Gypsophila paniculata 4302

labour requirements 6498

models, roses 8863

USA, ornamental herbaceous plants 1529

production possibilities

Croatia 9640

Mauritius, ornamental plants 10605

quality

assessment, ornamental plants 1513, 9649

cultivars, *Lilium* 7017

cultural methods

Celosia argentea var. *plumosa* 1550

chrysanthemums 605

Sandersonia aurantiaca 4339

disorders, *Protea*, reviews 4427

environment, roses 7098

fertilizers

Chamelaucium 8870

Gladiolus 9700

Polianthes tuberosa 7906

humidity, roses 9792

irrigation, *Chamelaucium uncinatum* 1642

light, *Eustoma grandiflorum* 9685

plant growth regulators, *Gerbera* 8757

plant nutrition, chrysanthemums 10619

planting date, *Lilium* 3434

protected cultivation, carnations 9660

rare earth elements, *Gerbera* 4286

seasonal variation, carnations 9660

shade, *Lilium* 3434

soilless culture

chrysanthemums 5171

Gerbera 8753

roses 8858

spacing, *Gladiolus* 6124

weed control, *Polianthes tuberosa* 2416

reports

Finland 6485

UK 4673

research

Croatia 9640

Israel 4302

responses

calcium, roses 7965

gamma radiation

carnations 5168

chrysanthemums 6096

roses 5168

plant growth regulators

Alstroemeria 5205

Antirrhinum 7859

carnations 7859

Chamelaucium uncinatum 10731

Cymbidium 10699

Hippeastrum 1575

Iris 6128, 10646

Phalaenopsis 6179

roses 4407

Strelitzia reginae 7886

silver, *Gypsophila* 9686

Cut flowers cont.

responses cont.

sugars

Gypsophila 9686

Polianthes tuberosa 9714

temperature

ornamental plants 9790

roses 9790

water stress, *Iris* 10646

senescence

carnations 1534, 4283-4284, 6090, 7428, 7864

Chamelaucium uncinatum 10730

Dendrobium 6175

Eustoma grandiflorum 8771

Gerbera 6996

Gladiolus 10643

Grevillea 9808

Lilium 9706

Petunia 9675, 10624

Phalaenopsis 7063, 9763

roses 4283

Sandersonia aurantiaca 4338

tulips 9709

storage

carnations 600, 7502

Chamelaucium uncinatum 1643

chrysanthemums 5172

Gaillardia pulchella 7874

Hippeastrum 1575

Leucadendron 2508

Lupinus hvardii 616

roses 7965

transport

Chamelaucium uncinatum 1643

chrysanthemums 2385

ultrastructure, *Gerbera* 9668

vase life

Acacia amoena 4408

Antirrhinum 6087

Callistephus chinensis 3406

carnations 600, 4284, 5167, 9650, 9660

Chamelaucium 8870

Chamelaucium uncinatum 8871-8872

chrysanthemums 605, 2381, 2385, 5172, 8749, 10621

Cymbidium 10701

Dendrobium 10705

Gerbera 6996-6997, 9650, 9668

Gladiolus 637, 7892

Grevillea 8879

Gypsophila 9650

Hibiscus rosa-sinensis 4419

Iris 6128

Ixia 659

Lupinus hvardii 616

ornamental plants 591, 8741, 9651

Paeonia 3419

Phlox paniculata 2397

Polianthes tuberosa 2416, 8795, 9714

roses 1635, 6207, 7965-7966, 8858, 8864, 9650

Strelitzia reginae 1557, 7886

Telopea 9812

Thalictrum delavayi 10635

tulips 652

vase water

microorganisms

Acacia amoena 4408

roses 9791, 10728

water relations

Acacia amoena 4408

carnations 3385

Gypsophila 9687

roses 6208, 7959, 7964, 9791

Cut foliage

disease control, *Magnolia grandiflora* 4392

pest control

insects 591

ornamental plants 591

production, cultural methods, *Pteris tremula* 4361

quality

fertilizers, *Aspidistra elatior* 4363

shade, *Aspidistra elatior* 4363

storage, *Pteris tremula* 4361

vase life

Aspidistra elatior 4363

ornamental plants 591, 8741

- Cut foliage cont.**
vase life cont.
Pteris tremula 4361
- Cut stems**
production
cultural methods
Salix alba 6236
Salix erythroflexuosa 6236
- Cuticle**
biochemistry
Euphorbia milii 9740
tomatoes 2311
composition
Encephalartos 8876
Hedera helix 4391
Papaver 10632
Papaveraceae 7880
development, *Cannabis sativa* 7159
mechanical properties, tomatoes 4245
permeability
Capsicum 9154
mandarins 5384
pears 9154
Prunus laurocerasus 5292
sour oranges 9154
ultrastructure
cabbages 389
Nelumbo nucifera 1686
Symphoricarpos 8886
Thalictrum flavum 1686
- Cutin, characterization, tomatoes** 2311
- Cuttings**
biochemistry, assessment, *Vitis berlandieri* × *Vitis rupestris* 6687
callus, development, *Persoonia virgata* 1653
cultural methods
Boehmeria nivea 8932
Camellia hiemalis 1620
Gevuina avellana 2036
grapes 8450
Juniperus procumbens 2477
Ocimum gratissimum 8905
Opuntia ficus-indica 6367
peaches × almonds 3741-3742
Persoonia virgata 1653
Piper betle 8933
Rhododendron 4398
small fruits 4862
development
assessment, *Stevia rebaudiana* 8050
humidity, pomegranates 8995
physiology, *Eucommia ulmoides* 2548
temperature, pomegranates 8995
grafting
Acacia senegal 7184
peaches 4827
plant water relations, *Syringa vulgaris* 2480
production
assessment, chrysanthemums 5169
techniques
apples 8252
chrysanthemums 9661
Coreopsis grandiflora 1555
Heuchera 2395
Hippophae rhamnoides 4862
horticultural crops 33
Hydrangea macrophylla 10720
Physostegia virginiana 1555
Scabiosa 2395
Stevia rebaudiana 8050
rooting
anatomy
Cupressocyparis leylandii 9773
Opuntia ficus-indica 5443
assessment, roses 3492
biochemistry
avocados 2581
peaches 3838
carbon dioxide, ornamental woody plants 4388
cultivars
Hibiscus rosa-sinensis 2504
Litchi 3613
peaches 3838
Prunus mume 3808
quinces 9327
Rhododendron 722
growing media
chrysanthemums 3387-3388
- Cuttings cont.**
rooting cont.
growing media cont.
coffee 4600
Ficus 10685-10686
Ficus infectoria 6218
Gnetum africanum 4263
Hylocereus undatus 11023
Lagerstroemia indica 7973
oranges 8054
ornamental woody plants 1617
peaches 4828
poinsettias 5264
histology, *Jasminum grandiflorum* 5263
in vitro culture
apples 89
Rosa kordesii 4402
roses 4402
irrigation, ornamental plants 1517
mists
Fagus sylvatica 7968
ornamental plants 1517-1518
Prunus kurilensis 5291
mycorrhizas, oranges 8054
physiology
peaches 3837
Pistacia chinensis 6231
Prunus mume 3808
provenance, *Parkia biglobosa* 5526
reviews, plants 2835
seasonal variation
Cephalotaxus harringtonia 7077
coffee 6399
Ficus infectoria 6218
Jasminum grandiflorum 5263
kiwifruits 4867
olives 10881
ornamental woody plants 9770
peaches 3839
pears 1159
Pistacia chinensis 6231
plums 9319
Prunus mira 10084
Salvia officinalis 756
Syzygium samarangense 2782
temperature
ornamental woody plants 1616
Pistacia chinensis 6231
sources
assessment
apples 1066
chrysanthemums 9661
Momordica dioica 3166
olives 2648
peaches 3839
peaches × almonds 3742
Piper betle 8933
Prunus kurilensis 5291
roses 10723
tea 2753
cultural methods
carnations 4281
olives 10881
ornamental woody plants 1616, 9770
etiolation
Acacia 9794
plums 4853
juvility
Acacia 9794
Sorbaronia alpina × *Sorbus aucuparia* 8885
Sorbus 8885
Sorbus aucuparia × *Aronia melanocarpa* 8885
ringing
Acacia 9794
apples 1066
Litchi 1746, 3613
storage
carnations 6993
peaches × almonds 3742
treatment
boron, coffee 10924
carbohydrates, olives 861
cold
kiwifruits 217
Vitis berlandieri × *Vitis rupestris* 6687
cultural methods, olives 10881
- Cuttings cont.**
treatment cont.
defoliation
Gnetum africanum 4263
Piper betle 8933
disinfectants, *Camellia hiemalis* 1620
fertilizers, grapes 10315
gamma radiation, olives 2648
heat
grapes 10335
peaches 4827
peaches × almonds 3742
hot water treatment
grapes 284, 3060
Hibiscus rosa-sinensis 2504
insecticides, chrysanthemums 1540
light, *Syringa vulgaris* 2480
organic sulfur compounds
apples 6548
Hedera helix 6548
plant growth regulators
Aesculus parviflora 2490
apples 1066, 6548, 10098
Bougainvillea buttiana 5261
Bougainvillea peruviana 7949
carnations 6993
Cephalotaxus harringtonia 7077
coffee 4600, 6399, 10924
Fagus sylvatica 7968
Ficus auriculata 8344
Gnetum africanum 4263
grapes 8450-8451, 10315
Hedera helix 6548
Jasminum grandiflorum 5263
Juniperus procumbens 2477
kiwifruits 4867
Lagerstroemia indica 7973
lemons 1714
Litchi 1746, 3613
loquats 1714
olives 861, 3617, 10881
ornamental woody plants 1616
Parkia biglobosa 5526
peaches 3839, 4827-4828
pears 1159
Pelargonium 9834
Persoonia virgata 1653
Pistacia chinensis 6231
plums 4853, 9319
poinsettias 5264
pomegranates 5440
Prunus mira 10084
Rhipsalidopsis gaertneri 1594
Rhododendron 4398, 6192, 7955
Salvia officinalis 756
Syzygium jambos 3696
Syzygium samarangense 2782
Wedelia chinensis 6292
water, *Syringa vulgaris* 2480
wounds
olives 10881
Parkia biglobosa 5526
types
assessment
peaches 3838
Rhododendron 722
tea 2752
greenwood cuttings, *Prunus mume* 3808
hardwood cuttings
apples 8252
Jasminum grandiflorum 5263
Lagerstroemia indica 7973
Vaccinium 8410
leaf bud cuttings, *Gevuina avellana* 2036
root cuttings, woody plants 6496
semihardwood cuttings
Malus × *Cydonia* 4840
Pyrus 4840
Rhododendron 7955
softwood cuttings
apples 8252
Jasminum grandiflorum 5263
Lagerstroemia indica 7973
Malus × *Cydonia* 4840
Pyrus 4840
Rhododendron 7955
Sorbus 8885
Vaccinium 8410
woody plants 6496

- Cyamopsis tetragonoloba**
disease control, *Macrophomina phaseolina* 745
embryos, development, anatomy 9532
mycorrhizas 3209
plant nutrition, nitrogen 5962
pods, composition 3209
roots, nodulation 2243
soil solarization 745
transpiration, physiology 9531
- Cyanamide**
responses
apples 4784, 6558, 9200
apricots 9243
grapes 4927, 9401-9402, 10355
kiwifruits 8397
mangoes 7333
walnuts 10255
- Cyananthus leantiostris**, pollinators, *Agapanthus praecox* 5178
- Cyanides**, composition, *Macadamia* 8980
- Cyanogens**
characterization, *Phlebodium aureum* 5223
metabolism, *in vitro* culture, *Schlechterina mitostemmatoides* 1706
taxonomy, Rosaceae 4387
- Cycas angulata**, characteristics 1645
- Cycas brunnea**, characteristics 1645
- Cycas cairnsiana**, characteristics 1645
- Cycas conferta**, characteristics 1645
- Cycas coultisiana**, characteristics 1645
- Cycas necrotic stunt nepovirus**, *Cycas revoluta* 7967
- Cycas ophiolitica**, characteristics 1645
- Cycas platyphylla**, characteristics 1645
- Cycas revoluta**
disease control, Italy 7967
plant nutrition, manganese 5285
- Cycas sylvestris**, characteristics 1645
- Cyclamen**
cultivars, disease resistance 3427
disease control, *Glomerella cingulata* 3427
in vitro culture, propagation, micropropagation 9694
pot plants, production, cultural methods 3426
soilless culture
irrigation 3426
plant nutrition 3426
tubers, development, histology 6122
- Cyclamen persicum**
breeding, polyploidy 10640
disease control, *Fusarium oxysporum* f.sp. *cyclaminis* 632
flowers, development, plant growth regulators 3428
growing media
amendments 2813
composition 630, 2813, 3425
herbicides, translocation 633
in vitro culture, somatic embryogenesis 631
leaves, development, plant growth regulators 3428
pollen, germination, *in vitro* culture 9695
pot plants
economics, Argentina 4294
production, cultural methods 630
quality, shade 3425
storage 10607
protected cultivation
heating systems 2371
systems, greenhouses 4294
shade, responses 3425
translocation, physiology 633
- Cyclocephala hirta**, Chinese cabbages 4105
- Cyclocephala lurida**, lawns and turf 9726
- Cyclocephala pasadenae**, lawns and turf 1583
- Cycloneda limbifer**
control
of *Aphis gossypii*, vegetables 7649
of *Aphis nasturtii*, vegetables 7649
of *Myzus persicae*, vegetables 7649
- Cydia caryana**, pecans 2979
- Cydia funebrana**, plums 3903-3904
- Cydia lobarzewskii**, apples 8295
- Cydia molesta**, peaches 1151, 2964, 3864, 3868-3870
- Cydia pomonella**
apples 1092, 1097, 1961, 1967, 2897, 2900-2901, 2904-2905, 3784-3785, 3790, 4776, 5613-5615, 7480, 7486, 8296-8298, 9195, 9197, 10125
fruit crops 7479
pears 2901, 2905, 4776, 8298
pome fruits 1056, 2847
walnuts 6641
- Cydia prunivora**, apples 8297
- Cydonia** (see also Quinces)
- Cydonia japonica** (see *Chaenomeles japonica*)
- Cymbidiella falcigera**, cultural methods, USA 8837
- Cymbidiella flabellata**, cultural methods, USA 8837
- Cymbidiella pardalina**, cultural methods, USA 8837
- Cymbidium**
altitude, responses 6170, 10700
cut flowers
responses, plant growth regulators 10699
vase life 10701
flowers
development, altitude 6170
senescence 5255
- Cymbidium goeringii**
chloroplasts, ultrastructure 697
stomata
anatomy 6166
frequency 6166
- Cymbidium kanran**
in vitro culture, culture media 10702
seeds, germination, assessment 10702
- Cymbidium mosaic potexvirus**, Orchidaceae 695
- Cymbidium pendulum**, *in vitro* culture, propagation, micropropagation 7935
- Cymbidium sinense**
flowers, initiation, plant nutrition 5256
in vitro culture, techniques 4374
plant, development, anatomy 6171
plant nutrition
nitrogen 5256
phosphorus 1600, 1602
potassium 1603-1604
plant water relations, water stress 1601
seeds
development, embryology 698, 8838
germination, anatomy 6171
soil water, responses 1601
soilless culture, plant nutrition 1603-1604, 5256
- Cymbopogon**, cropping systems, intercropping 9830
- Cymbopogon citratus**, economics, Argentina 10758
- Cymbopogon flexuosus**
cropping systems, agroforestry 2526
in vitro culture, propagation, micropropagation 6259, 8902
intercropping
Eucalyptus tereticornis 9830
Populus deltoides 2526
irrigation, frequency 8008
- Cymbopogon jwarancusa**, cultivars, assessment, India 7140
- Cymbopogon martinii**
cropping systems, intercropping 5310
fertilizers, nitrogen 10759
in vitro culture, propagation, micropropagation 8902
intercropping
Cajanus cajan 5310
Eucalyptus tereticornis 9830
- Cymbopogon winterianus**
cropping systems, agroforestry 2526
fertilizers
nitrogen 10760
phosphorus 7141
intercropping
Eucalyptus tereticornis 9830
Populus deltoides 2526
irrigation, systems 10760
mycorrhizas 7141
soil compaction, responses 7141
- Cynara** (see also Globe artichokes)
- Cynodon**
cultivars, assessment, USA 5209
- Cynodon cont.**
oversowing 8799
- Cynodon dactylon**
as weeds
apples 8269
lawns and turf 6141
mandarins 8058
Ocimum basilicum 7145
Origanum majorana 7145
cultivars, identification 9719
drought, resistance, assessment 10667
economics, USA 1580
herbicides, tolerance 2421, 6150
irrigation, requirements, determination 2423
nutrients, requirements, assessment 2423
plant, development, temperature 10676
transpiration, measurement 4356
weed control 2421
- Cynodon dactylon** × **Cynodon transvaalensis**
disease control, *Gaeumannomyces graminis* var. *graminis* 4351
drought, resistance, assessment 10667
plant, development, temperature 10676
transpiration, measurement 4356, 10675
- Cynoglossum officinale**, seeds, dormancy, biochemistry 8028
- Cynorkis gibbosa**, cultural methods, UK 10703
- Cyperus esculentus**
as weeds
lawns and turf 668
ornamental woody plants 7071, 8845
planting
planting date 6962
spacing 6962
- Cyperus iria**, as weeds, ornamental plants 1522
- Cyperus rotundus**
as weeds
Asparagus 9544
Citrus 9884
Gladiolus 6125
grapes 3969
mandarins 8058
mangoes 9884
okras 2270
olives 7242
- Cyphicerus emarginatus**, *Phaseolus vulgaris* 10485
- Cyphomandra** (see also Tamarillos)
taxonomy, nomenclature 3634
- Cyphomandra cajanumensis**, characteristics 8875
- Cyphomandra diversifolia**, characteristics 8875
- Cypripedium**, taxonomy, nomenclature 998
- Cypripedium acaule**
in vitro culture, culture media 2440
seeds, germination, *in vitro* culture 2440
- Cypripedium japonicum**, ecology, Korea Republic 6172
- Cypripedium macranthum**
fertilizers
nitrogen 10704
phosphorus 10704
potassium 10704
- Cyprus**, olives, cultivars 6355
- Cyrtanthus**, taxonomy, morphology 5206
- Cyrtanthus elatus**
taxonomy
morphology 5206
revisions 5206
- Cyrtomium falcatum**, *in vitro* culture, metabolites, production 54
- Cyrtopeltis tenuis**, control, of *Trialeurodes vaporariorum*, tomatoes 3291-3292
- Cyrtopodium braemii**, taxonomy, new taxa 2454
- Cyrtopodium fowliei**, taxonomy, new taxa 2454
- Cyrtopodium gigas**, characteristics 6173
- Cyrtopodium gonzalezii**, taxonomy, new taxa 2454
- Cyrtopodium hatschbachii**, geographical distribution 6174
- Cyrtopodium holstii**, taxonomy, new taxa 2454
- Cyrtopodium palmifrons**, characteristics 6173

- Cyrtopodium poecilum**, taxonomy, nomenclature 6174
- Cyrtopodium saintlegerianum**, characteristics 6173
- Cytisus scoparius**
allelopathy 8211
cultivars, clones 4386
- Cytochromes**, metabolism, pH, peas 5968
- Cytology**
Adiantum capillus-veneris 2431, 8816
Ammopiptanthus mongolicus 10775
apples 4786, 10145
Asparagus 660
cabbages 10452
Catharanthus roseus 6276
cherries 7520
chives 2141
Clivia miniata 656
Cucurbita pepo 8579
Flaveria chloraefolia 8031
fruit crops 2815
garlic 1278, 7673
Haemanthus katherinae 660
Hippeastrum vittatum 10658
leeks 3087, 5793
Muscari comosum 660
olives 8101
onions 2137-2138, 3098, 4045-4046, 6758, 7673, 9447, 10386, 10388
Papaver somniferum 10795
peas 2248, 3215, 7759, 8606
persimmons 8107
Phaseolus vulgaris 5956, 8606
pumpkins 7731
radishes 5883
reviews 1050
Rhoeo spathacea 656
spinach 10404
Tamarix aphylla 7125
tomatoes 6008
Vicia faba 5956, 7751, 8606
Zinnia elegans 8782
- Cytospora**
cherries 2930
peaches 7447
- Czech Republic**
Carthamus tinctorius, cultivars 3407
Oenothera, surveys 1687
- Daboecia azorica**, taxonomy, nomenclature 8849
- Daboecia cantabrica**, taxonomy, nomenclature 8849
- Daboecia scotica**, taxonomy, nomenclature 8849
- Dacnusa sibirica**, control, of *Liriomyza bryoniae*, greenhouse crops 4230
- Dactylorchis** (see *Dactylorhiza*)
- Dactylorhiza incarnata**
ecology, Finland 4375
mycorrhizas 2436
plant nutrition
calcium 2442
nitrogen 2441-2442
phosphorus 2441
potassium 2442
- Dactylorhiza maculata**
ecology, Finland 4375
plant nutrition
nitrogen 2441
phosphorus 2441
- Dactylorhiza majalis**
mycorrhizas 2436
plant nutrition
nitrogen 2441
phosphorus 2441
- Dactylorhiza praetermissa**
conservation, UK 1605
mycorrhizas 2436
plant nutrition
nitrogen 2441
phosphorus 2441
- Dahlia**, disease control, *Erysiphe cichoracearum* 5195
- Dahlia pinnata**
fertilizers
nitrogen 6123
phosphorus 6123
flowers, development, morphology 4320
plant, development, plant growth regulators 8785
roots, development, assessment 5196
- Dahlia pinnata** cont.
shoots, vascular system 5904
tubers, production, cultural methods 1561, 6123
- Damsons**
as rootstocks
almonds 2840
apricots 2840
nectarines 2840
peaches 2840
plums 1177
cultivars, assessment, Switzerland 1173
cultural methods, Switzerland 4711
production, Switzerland 9317
rootstocks, selection 2028
- Daphne blagayana**
disease control
Phytophthora 10067
Pythium 10067
- Daphne burkwoodii**, weed control 2372
- Daphne mezereum**, flowers, composition 6216
- Daphne odora**, roots, composition 9799
- Dark**, responses, spinach 8501
- Darna trima**, tea 2760
- Darwinia**
ornamental value 9800
species, ornamental value 9801
- Dasineura**, apples 2904
- Dasineura glediichiae**, *Gleditsia triacanthos* 7110
- Dasineura odoratae**, *Viola odorata* 3422
- Dasychira baibarana**, tea 8163
- Databases**
essential oil plants 7984
medicinal plants 7984
- Dates**
cultivars
assessment, India 8087
composition 848
pest resistance 2628
disease control, *Fusarium oxysporum* f.sp. *albedinis* 851
fertilizers, nitrogen 7231
flowers
development, cultivars 10869
initiation, cultivars 10869
fruits
biochemistry, insecticides 852
composition 848, 4537, 10875
development
biochemistry 7231
fertilizers 7231
drop, cultivars 10869
quality
cultivars 10870-10871
cultural methods 2630
plant growth regulators 5415
ripening, plant growth regulators 5415
set, cultivars 10869
size, cultivars 8087
in vitro culture
propagation
micropropagation 849, 4536, 5412-5414
responses 2629, 5414, 10869-10871
somatic embryogenesis 10872
marketing, Tunisia 4677
pest control
birds 2630
insects 2630, 6346
plant nutrition
iron 7231
manganese 7231
phosphorus 7231
potassium 7231
trace elements 4537
zinc 7231
pollen
morphology 10873
storage 7232, 9899
treatment, gamma radiation 10873
pollination, techniques 10874
pollution, heavy metals 850
production, Australia 2627
propagation, techniques 10870-10871
reports, Australia 8189
salinity, responses 9898
sorting, equipment 1744
- Dates** cont.
storage
temperature 5416
treatment 852
wrappings 10875
- Datura fastuosa**
in vitro culture, biochemistry 7163
taxonomy, chemotaxonomy 4457
- Datura metel**
plant, development, biochemistry 1682
soil types 9842
taxonomy, chemotaxonomy 4457
- Datura quercifolia**, taxonomy, chemotaxonomy 4457
- Datura stramonium**
in vitro culture, biochemistry 2543-2544
seeds, sowing, sowing date 7164
taxonomy, chemotaxonomy 4457
- Daucus** (see also Carrots)
- Debaryomyces**, control, of fungi, oranges 7227
- Deblossoming**
responses
grapes 3992
strawberries 5735
- Decarya**, characteristics 5216
- Defoliation**
responses
apples 5603, 7494, 9182, 10137
Capsicum 6903, 8623-8624, 10526
citrumelos 4496
grapes 1250, 1253, 3038, 3991, 3994, 5759, 6698, 10350
kiwifruits 4870
mandarins 4496
mangoes 4628
Nerine bowdenii 4330
strawberries 5735
tomatoes 497, 6903
Vitis 2098
techniques, guavas 10945
- Deinanthie bifida**, ornamental value 9684
- Deinanthie caerulea**, ornamental value 9684
- Delia antiqua**, onions 7671
- Delia radicum**
Brussels sprouts 10450
cabbages 4106
cauliflowers 3079
Chinese cabbages 3079
radishes 3079
vegetables 2115
- Delphinium**
flowers, initiation, temperature 5182
taxonomy, revisions 6133
- Delphinium formosum**, plant, composition 8766-8767
- Dendranthema boreale**
photoperiodism 2384
pinching, responses 2384
planting, planting date 2384
- Dendranthema indicum** (see *Chrysanthemums*)
- Dendranthema morifolium** (see *Chrysanthemums*)
- Dendranthema pacificum**, ornamental value 8768
- Dendranthema zawadskii**
photoperiodism 2384
pinching, responses 2384
planting, planting date 2384
- Dendrobium**
cut flowers
pest control 2443
preservatives 10705
senescence 6175
vase life 10705
flowers
biochemistry
light 3460
temperature 3460
development, plant growth regulators 10705
size
light 3460
temperature 3460
in vitro culture
histology 699
propagation, micropropagation 2444, 7936
pest control
Frankliniella occidentalis 2443

- Dendrobium** *cont.*
 pest control *cont.*
Thrips palmi 2443
 pests, surveys, Australia 1607
 pot plants
 quality
 fertilizers 1606
 growing media 1606
 roots, anatomy 4376
 shoots, initiation, temperature 8839
Dendrobium crumenatum, shoots, epiphytes 2445
Dendrobium ekapol
 photosynthesis
 CAM pathway 4377-4378
 photoperiod 4377
 water stress, responses 4378
Dendrobium fimbriatum
in vitro culture
 culture media 7930
 embryos 7930
Dendrobium moschatum
in vitro culture
 culture media 7930
 embryos 7930
Dendrobium nanum, soilless culture, cultural methods 2439
Dendrobium nobile
 cultivars
 flowering date 8840
 temperature 8840
Dendrocalamus asper, production, Thailand 4262
Dendroseris litoralis, characteristics 10625
Dendrothrips ornatus, *Syringa* 3483
Denmark
 apples, cultivars 5593
 broccoli, cultivars 5858
 cabbages, cultivars 3133
 cauliflowers, cultivars 5856
 cherries, cultural methods 7517
 cucumbers, cultivars 7727
 strawberries, cultivars 9356
 vegetables, pests, surveys 2115
Deroceras reticulatum, cabbages 9484
Desmodium ovalifolium, as cover crops, coffee 7296
Desmodium scorpiurus, as cover crops, temperate fruits 5585
Desmodium uncinatum, as cover crops, tea 953
Desulphovibrio desulphuricans, soil inoculation, *Capsicum* 9561
Deudorix isocrates
 guavas 2714
 pomegranates 6365
Deudorix livia, pomegranates 6366
Deutzia crenata
 pollution
 exhaust gases 10717
 lead 10717
Diabrotica undecimpunctata howardi, watermelons 6417
Diabrotica undecimpunctata undecimpunctata, Chinese cabbages 4105
Dianthus (*see also* Carnations)
 cultivars, assessment, USA 592, 5192, 6991
Dianthus allwoodii
 forcing 595
 pot plants, production, cultural methods 595
Dianthus chinensis
in vitro culture, organogenesis 1532
 soil amendments 10610
Diaphania hyalinata
Cucurbita pepo 1364
 melons 7313
 squashes 406
Diaphania nitidalis
Cucurbita pepo 1364
 melons 7313
Diaphorina citri, *Citrus* 8955
Diaporthe citri
 grapefruits 9890
 mandarins 6342
Diaprepes abbreviatus, *Citrus* 1727, 8073
Diascia, cultivars, assessment, UK 8769
Diaspididae, apples 3790
Dibrachys cavus, control, of *Lobesia botrana*, grapes 3981
Dichaea, taxonomy, nomenclature 7056
Dictionaries
 agriculture, languages 1869
 ornamental plants, languages 1863
Dictyophara patruelis, tea 10015
Dictyophora duplicata, nutritive value 1497
Dicyphus tamaninii
 control
 of *Frankliniella occidentalis*, cucumbers 5903
 of *Trialeurodes vaporariorum*, cucumbers 5903
Didierea, characteristics 5216
Didierea madagascariensis, characteristics 5216
Didiereaceae, characteristics 5216
Didymella applanata, raspberries 1193
Didymella bryoniae
 melons 3669
 watermelons 1807
Didymella lycopersici, tomatoes 6039
Dieffenbachia
 pot plants
 production, cultural methods 7920
 storage 10607
Dieffenbachia maculata
 growing media, composition 5234
 mycorrhizas 4692
Diervilla florida (*see* *Weigela florida*)
Digitalis lanata
 plant growth regulators
 chlormequat, responses 4458
 ethylene, responses 4458
 gibberellic acid, responses 4458
Digitalis purpurea
in vitro culture, biochemistry 1683
 leaves, biochemistry, light 6280
 plant growth regulators
 chlormequat, responses 4458
 ethylene, responses 4458
 gibberellic acid, responses 4458
 seeds
 viability
 drying 4459
 maturity 4459
Digitaria, as weeds, lawns and turf 3443, 6147-6149, 8800
Digitaria insularis
 as weeds
 Citrus 6324
 Hevea 940
Digitaria ischaemum, as weeds, lawns and turf 667
Digitaria sanguinalis 7702
 as weeds
 bedding plants 2377
 cabbages 7702
 Chinese cabbages 6785
 Gardenia jasminoides 6220
 garlic 6746
 Gladiolus 6125
 lawns and turf 2421, 8801
 ornamental plants 1522
Diglyphus isaea
 control
 of *Liriomyza bryoniae*
 greenhouse crops 4230
 tomatoes 1459
 of *Liriomyza trifolii*, tomatoes 2308
Dill (*see* *Anethum graveolens*)
Dimocarpus (*see also* Longans)
Dimocarpus longan, nectar 6350
Dimocarpus longan subsp. malesianus, fruits, composition 10878
Dionus pumilio
 control
 of *Acizzia uncatoides*
 Acacia 729
 Albizia 729
Dionaea muscipula
 electrical properties, physiology 6111
in vitro culture, propagation, micropropagation 8824
 leaves, movement, histology 10683
 plant, composition 2391
Dioon edule, inflorescences, composition 2417
Dioscorea deltoidea
 fertilizers
 nitrogen 2545
 phosphorus 2545
 potassium 2545
Dioscorea floribunda, propagation, techniques 10783
Dioscorea remotiflora, wild plants, edible species 6963
Dioscorea tokoro, seeds, germination, biochemistry 8918
Diospyros (*see also* Persimmons)
Diospyros oldhami, growing media, composition 2655
Diplocarpon earlianum, strawberries 4882, 7581
Diplocarpon rosae
Rosa damascena 3527
 roses 5273, 7093
Diplocentrum recurvum, soilless culture, cultural methods 2439
Diplotaxis erucoides, as weeds, almonds 2850
Diplotaxis virgata, as weeds, olives 7242
Diptera
 bedding plants 7860
 ornamental plants 588, 590
 pollinators, mangoes 10963
Rhododendron 590
Dipteryx alata, seeds, composition 9106
Dipteryx odorata, seeds, composition 2572
Disa cooperi, pollination, pollinators, *Basiothia schenki* 4379
Disa tenuifolia, pollination, pollinators, *Apidae* 4380
Disbudding, responses, *Citrus* 5372
Discula destructiva, *Cornus* 10733
Ditylenchus dipsaci
 garlic 5780
 onions 1291
Diuris magnifica, seedlings, development, mycorrhizas 4372
Dodder (*see* *Cuscuta*)
Dodecatheon meadia
 cut flowers, production, cultural methods 3412
 seeds, germination, seed treatment 3412
Dodonaea, species, pot plants 9639
Dohrniphora, mushrooms 7850
Dolichoderus thoracicus
 control
 of *Conopomorpha cramerella*, cocoa 9018
 of *Helopeltis theivora*, cocoa 2682
Dolomite
 utilization
 fertilizers, cherries 3818
 soil amendments
 apples 2888
 cherries 2888
 Impatiens walleriana 7876
 plums 4856
Domingoa, books 7392
Doritaenopsis, *in vitro* culture, disorders, vitrification 5257
Dormancy
 biochemistry
 tea 8167
 Vaccinium ashei 8417
 cyanamide
 grapes 1251
 walnuts 10255
 physiology
 grapes 8482
 strawberries 6677
 temperature, *Freesia* 8786
Dorotheanthus bellidiformis, *in vitro* culture, cell suspensions 9739
Doryanthes palmeri, characteristics 5235
Dorycnium, ornamental value 1509
Dothiorella aromatica, avocados 6309
Dothiorella dominicana, mangoes 9984
Dracaena deremensis, disease control, *Glomerella cingulata* 7921
Dracaena fragrans
 pot plants
 production, cultural methods 5219
 storage 10607
Dracaena hookeriana, shoots, abnormal development 2498

- Dracocephalum moldavica***
fertilizers, nitrogen 8029
leaves, ultrastructure 3525
planting, spacing 8029
trichomes 3525
- Dracontomelon vitiense***, wild plants, utilization, Vanuatu 10904
- Dracula vampira***, cultural methods, UK 10706
- Drepanopeziza ribis***, black currants 4871, 8402
- Drepanothrips reuteri***, grapes 285
- Dried flowers**
production
ornamental plants 9643
Poaceae 9654
- Dried fruit**, production, India, grapes 10357
- Drosera***, *in vitro* culture, propagation, micropropagation 8824
- Drosera rotundifolia***
ecology, Sweden 7165
in vitro culture
callus, ultrastructure 682
culture media 5338
organogenesis 5338
plant competition, *Sphagnum fuscum* 7165
- Drosera spatulata***, *in vitro* culture, ultrastructure 5236
- Drought** (see also Plant water relations; Water stress)
injuries, tea 7353
measurement, watermelons 9964
resistance
age, *Musa* 3642
assessment, lawns and turf 10667
cultivars
durians 4652
Eucommia ulmoides 2549
lawns and turf 666
Musa 3642
tea 10005
irrigation, lawns and turf 7034
mycorrhizas, satsumas 5377
physiology
Eucommia ulmoides 2549
Sprekelia formosissima 5208
responses
aubergines 5089
cashews 1790
coconuts 10920
cucumbers 5906
grapes 3975
Litchi 1749
olives 4550
pears 10232
peas 8610
strawberries 3022
tea 8166
tomatoes 5089, 9602
- Dryadella odontostele***, taxonomy, new taxa 9753
- Dryadella silvana***, characteristics 2446
- Dryadella sororcula***, taxonomy, new taxa 9753
- Drying**
cultivars, apricots 10170
equipment
cocoa 892
Pleurotus florida 579
models, *Volvariella volvacea* 6988
techniques
apples 10151
apricots 10182
Areca catechu 7265
cut flowers 5162
Darwinia 9801
onions 6760
persimmons 870, 3628
temperature
Areca catechu 7265
mushrooms 2342
- Dryocosmus kuriphilus***, chestnuts 6606
- Dryopteris erythrosora***, shade, responses 5160
- Dryopteris filix-mas***
reproduction, biology 6156
spores, germination, biochemistry 4362
- Dunaliella salina***
cultivars, assessment, Thailand 778
- Dunaliella salina* cont.**
plant
biochemistry
light 776-777
salinity 777
salinity, responses 776-777
- Dunaliella tertiolecta***, plant, composition 3544
- Duranta erecta***
pollution
exhaust gases 10717
lead 10717
seeds, composition 10804
- Durians**
fruits
development, physiology 7375
ripening
biochemistry 2775
temperature 2775
production, Vietnam 2667
products, pectins 1774
reports, Australia 8189
storage
humidity 972
physiology 972
temperature 972
translocation, physiology 7375
water stress, responses 4652
weed control 37
- Durio*** (see also Durians)
- Durio zibethinus***
cropping systems, agroforestry 5525
ecology, Indonesia 5525
- Dwarfing** (see also Growth retardation)
viroids
grapefruits 6314
oranges 6314
- Dye plants**
in vitro culture, metabolites, production, reviews 7129
production possibilities, Italy 6251
- Dysaphis***, apples 6621
- Dysaphis plantaginea***
apples 1963, 1966, 6565, 6621
fruit crops 7479
- Dysmicoccus brevipes***, pineapples 6438
- Earias***, okras 6895, 7769
- Earias vittella***, okras 2271, 3230, 6892
- Earthworms**, populations, soil management, grapes 9397
- East Africa**, coconuts, cultivars 6393
- Ecballium elaterium***, allelopathy 8211
- Echeveria gibbiflora***, reproduction, biology 5237
- Echinacea angustifolia***
allelopathy 8920
seeds, germination, seed treatment 8919
- Echinacea purpurea***
cut flowers, production, USA 1529
seeds, germination, seed treatment 5183, 8919
- Echinocactus grusonii***, seeds, germination, seed treatment 1586
- Echinocactus platyacanthus***, seeds, germination, seed treatment 1586
- Echinochloa colonum***, as weeds, *Gladiolus* 6125
- Echinochloa crus-galli*** 7702
as weeds
apples 1949, 7467
Asparagus 7763
broccoli 1326
cabbages 7702
endives 7687
Gladiolus 6125
lawns and turf 8802
lettuces 7687
onions 9442
pears 1949, 7467
radishes 3156
- Eclipta alba*** 7702
as weeds, cabbages 7702
- Economics**
apples
Slovenia 10115
Switzerland 5591
USA 4715
Areca catechu, India 6373
avocados, South Africa 3561
bananas
India 7268
- Economics cont.**
bananas cont.
Puerto Rico 881
cabbages, Canada 8492
chrysanthemums, Netherlands 6093
citrons, Bangladesh 2586
- Citrus**
Australia 2587
USA 7195
coconuts, India 6373
coffee, Brazil 8135
Cucurbitaceae, Australia 3160
Elettaria cardamomum, India 8888
Euterpe edulis, Brazil 7376
fruit crops
Austria 6531
Germany 5553
USA 9159
grapes
Australia 6682
Korea Republic 1217
Slovakia 10309
greenhouse crops
Argentina 3723
Greece 313
- Hevea**
Indonesia 6439, 10002
Sri Lanka 6441
- horticultural crops**
conferences 1010
UK 6493
USA 1024
lawns and turf, USA 1580
melons, Korea Republic 4606
olives, Italy 8094
onions
Canada 8492
India 337
Orchidaceae
Europe 10695
India 9755
North America 10695
ornamental plants
Belgium 8738
UK 1258, 9641
Paonia, Korea Republic 4463
peaches, France 173
Phaseolus vulgaris, Canada 8492
Phyllanthus emblica, India 7378
pot plants, Argentina 4294
roses, Brazil 7958
tea, Sri Lanka 6441
tomatoes
Argentina 4212
Canada 8492
Italy 486
USA 487, 1478
vegetables
Germany 5767
UK 1258
- Ecuador**
apples, cultural methods 8241
Carica pentagona, production possibilities 9869
cocoa, production 6390
Solanum quitoense, production possibilities 9869
tamarillos, production possibilities 9869
- Edible fungi** (see also Mushrooms)
Agaricus 2334, 7851, 9628
Agaricus arvensis 6969
Agaricus augustus 563
Agaricus bitorquis 3346
Agaricus blazei 2354
Agaricus campestris 563, 572, 7851, 10586
Agaricus fiardii 10586
Agaricus nivescens 10586
Agaricus pampeanus 10586
Agaricus pseudoargentinus 10586
Agrocybe 2355
Agrocybe cylindracea 6976
Amanita fulva 7845
Amanita rubescens 6060
Armillaria 10588
Armillaria mellea 3331, 6977, 10589
Auricularia 3354
Auricularia auricula 1497, 2333, 8722
Auricularia polytricha 3355, 5148
Boletus badius 3329, 6969
Boletus chrysenteron 6969

Edible fungi cont.

- Boletus edulis* 563, 3356, 6969
books 10031
Burundi, books 1861
Calvatia cyathiformis 2333
Cantharellus cibarius 563, 6969, 7852
Cantharellus tubaeformis 7852
Collybia 2334
Collybia maculata 3363
composition 2333, 6061, 7851, 9627
conferences 1881
Cookeina sulcipes 3357
Coprinus cinereus 573, 8728
Coprinus comatus 563
Dictyophora duplicata 1497
ethnobotany 2332
Flammulina velutipes 562, 1502, 3331, 4271, 8728, 10590
Ganoderma 8722
Ganoderma lucidum 3358
Grifola frondosa 3331, 8729
Hericium erinaceus 574, 1497, 1503, 3359
Hygrophorus russula 3331
in vitro culture, mycelium 3363
Leccinum aurantiacum 3329
Leccinum rufum 6969
Leccinum scabrum 563
Lentinula edodes 562, 575, 1504-1505, 2334, 2336, 2356-2360, 3331-3332, 3360-3362, 5149, 6067-6069, 6972, 6978-6979, 7853, 8722, 8730-8733, 9633
Lentinus cladopus 3363
Lentinus lepideus 6070
Lentinus squarrosulus 3363
Lentinus subnudus 2333
Lepiota procera 4265
Lepista nuda 563, 4265, 6980, 8734
Lyophyllum shimeji 3331, 6972
Marasmius wunnei 6061
Morchella 2361
Morchella angusticeps 3364
Morchella conica 576
Morchella crassipes 3364
Morchella elata 3364
Morchella esculenta 3364
Morchella rotunda 3364
Morchella vulgaris 3364
nutritive value, reviews 6970
Oudemansiella canarii 3332
Panellus serotinus 3331
Pholiota 2334
Pholiota nameko 3331, 6071, 6981
Pleurotus 2334, 2336, 2355, 2362, 3365-3366, 4272, 7851, 8190, 8725, 10592
reviews 6970
Pleurotus calyptratus 10591
Pleurotus citrinopileatus 577, 4266, 6072, 6982-6983, 10593
Pleurotus columbinus 10591
Pleurotus cornucopiae 10591
Pleurotus cystidiosus 3367
Pleurotus eryngii 10591
Pleurotus flabellatus 577, 6983, 10591
Pleurotus florida 577-579, 1506, 6982-6983, 9634-9635, 10591
Pleurotus ostreatus 36, 562, 3331-3332, 3368-3370, 5150, 6073-6074, 6984-6986, 7851, 7854, 8735, 9634-9636, 10590-10591, 10594-10598
reviews 6970
Pleurotus ostreatus × *Pleurotus florida* 10591
Pleurotus platypus 6072, 6982
Pleurotus pulmonarius 2363, 10591, 10595
Pleurotus saca 3371
Pleurotus sajor-caju 571, 577-578, 580, 2364, 4266, 6072, 6075-6076, 6972, 6982-6983, 8722, 9635, 9637, 10591, 10593, 10599-10600
Pleurotus sapidus 4266, 4273, 6983
pollution
cadmium 6969
copper 6969
heavy metals 4265
lead 6969
Psathyrella antroumbonata 2333
Ramaria 6987

Edible fungi cont.

- Ramaria botrytis* 3331
reviews 3333, 6528
Rozites caperatus 7845
Sarcodon aspratus 3331
Schizophyllum commune 2333, 8722
spawn, production 1498
Stropharia 2334
Suillus bovinus 6969
Suillus grevillei 3331, 6060
Suillus luteus 6060, 6969
surveys
China 6971
Tanzania 2332
Turkey 561
taxonomy 3330
Terfezia boudieri 10601
Terfezia calveyi 3372
Termitomyces 8722
Termitomyces albuminosus 8736
Termitomyces microcarpus 2333
Termitomyces robustus 2333
Tirmania nivea 10601
Tremella fuciformis 1507
Tricholoma giganteum 3331
Tricholoma matsutake 8737, 9638
Tuber 581, 5151
Tuber aestivum 10602
Tuber albidum 6077
Tuber magnatum 2365, 3373, 10602-10603
Tuber melanosporum 582, 2365-2366, 3373, 5152, 7855, 10602
Tuber mesentericum 5152
Tuber rufum 5152
Tylopilus felleus 3329
Volvariella, reviews 6970
Volvariella diplasia 4266
Volvariella esculenta 6078
Volvariella speciosa 6079
Volvariella volvacea 1508, 3374, 4266, 6972, 6988, 10604
wild plants, utilization, Japan 4005
Xerocomus subtomentosus 6060
Edwardsiana rosae, apples 2896
Eggplants (see Aubergines)
Egypt
Agave, species 9839
apples, cultivars 3831
Capsicum, cultivars 5992
Cucurbita, cultivars 4128
Cucurbita pepo, cultivars 4127
garlic, cultivars 8503
okra, cultivars 463, 2266, 3227
peaches, cultivars 3831
tomatoes, cultivars 6907
Eichhornia crassipes, flowers, colour, bio-chemistry 4300
Elaeidobius, pollinators, oil palms 7343
Elaeidobius kamerunicus, pollinators, oil palms 10982
Elais (see also Oil palms)
Elais melanococca, seeds, composition 1764
Elateridae, strawberries 5733
Electrical properties
determination
avocados 818
pears 818
measurement
Ficus benghalensis 8848
Ficus elastica 8848
Ficus religiosa 8848
Hibiscus rosa-sinensis 8848
mulberries 8848
physiology
avocados 814
Cucurbitaceae 6831
Dionaea muscipula 6111
Hibiscus rosa-sinensis 4418
Tradescantia fluminensis 6831
watercress 6806
plant nutrition, *Phaseolus vulgaris* 5940
temperature
Cucurbita pepo 5908, 7739
Eranthis hyemalis 2411
Electricity, responses, tomatoes 9606
Electronic publications, poisonous plants, identification 2839
Elettaria cardamomum
cropping systems, agroforestry 5302

Elettaria cardamomum cont.

- disease control, *Phytophthora meadii* 753
economics, India 8888
fertilizers
nitrogen 6260
phosphorus 6260
potassium 6260
in vitro culture, organogenesis 4678
insecticides, residues 6261
pest control
Lema fulvimana 7991
Nematoda, reviews 7986
production possibilities, Ethiopia 7142
Eleusine aegyptium, as weeds, okras 2270
Eleusine indica
as weeds
garlic 6746
lawns and turf 6149
melons 9041
watermelons 9041
Eleutherococcus senticosus
climate, Korea Republic 9852
seeds, production, Korea Republic 9852
Elsholtzia ciliata, production possibilities, Russia 8009
Elsinoe ampelina, grapes 3979, 7626, 10337
Elymus repens
as weeds
apples 1949, 8269
fruit crops 2817
pears 1949
vegetables 2817
Embelia ribes, reviews 8921
Embelia tsjeriam-cottam, reviews 8921
Emblia officinalis (see *Phyllanthus emblica*)
Empoasca pirisuga, tea 8164
Encarsia formosa
control
of Aleyrodidae
cucumbers 2307
tomatoes 2307
of *Bemisia argentifolii*
poinsettias 7954
poinsettias 7954
tomatoes 526
of *Bemisia tabaci*
cucumbers 6826
poinsettias 1628
of Hemiptera
ornamental plants 3080
vegetables 3080
of *Trialeurodes vaporariorum*
aubergines 6933
cucumbers 4141
tomatoes 1457, 2308, 4232, 6023, 6933
vegetables 1365
Encarsia pergandiella, control, of *Trialeurodes vaporariorum*, tomatoes 1457
Encarsia perniciosi, control, of *Quadraspido-otus perniciosus*, temperate fruits 1923
Encelia farinosa
roots
development
carbon dioxide 7041
temperature 7041
Encephalartos cycadifolius, in vitro culture, somatic embryogenesis 7109, 9802
Encephalartos ferox
in vitro culture, somatic embryogenesis 9803
inflorescences, composition 2417
Encephalartos horridus, plant, composition 8876
Encephalartos lehmannii, plant, composition 8876
Encephalartos princeps, plant, composition 8876
Encephalartos trispinosus, plant, composition 8876
Encyclia
books 7392
taxonomy, nomenclature 7056
Encyclia pseudopygmaea, taxonomy, keys 7057
Encyclia pygmaea, taxonomy, keys 7057
Encyclia racemifera
taxonomy
keys 7057
new taxa 7057

Endives

cultural methods, Netherlands 4070
mycorrhizas 4692
protected cultivation, systems, row covers 356
reports, Belgium 1884, 1888, 9127
soil salinity, responses 3077
weed control 7687

Energy sources

geothermal energy, *Asparagus* 4182
methane, greenhouses 46
solar radiation, greenhouses 2296
waste heat utilization, greenhouses 3721

Enicostema litorale, shade, responses 6281

Enneadesmus obtusidentatus, dates 6346

Ensete

seeds
anatomy 5455
composition 5455

Ensete ventricosum, *in vitro* culture, propagation, micropropagation 6057

Enterobacter, populations, vase water, roses 10728

Enterobacter aerogenes, control, of
Phytophthora cactorum, apples 6563

Enterobacter agglomerans, control, of
Agrobacterium vitis, grapes 6707

Enterobacter cloacae, root inoculation, grapes 6705

Enteromorpha clathrata, irrigation, water, salinity 1698

Entrophospora colombiana, mycorrhizas, pawpaws 9062

Enzyme activity

abscission, tomatoes 1464
assessment
Lilium longiflorum 650
oranges 8074
ortaniques 8074
pawpaws 8158
Pleurotus sapidus 4273

biochemistry

Agave deserti 5226
algae 774
apples 135, 152, 4792, 10144
avocados 2581
beetroots 10397
blackberries 8406
carrots 1485
cauliflowers 4115, 5875, 6795
Chinese cabbages 1341
Citrus meyeri 3602
coffee 4603
cucumbers 411
Cucurbita maxima 3185
Eucommia ulmoides 2550
fruit crops 8228
Gladiolus 6126
grapes 4928
Hevea 5508
Kalanchoe fedtschenkoi 5243
kiwifruits 4792
lawns and turf 5214, 7908
leeks 4028
lemons 833, 3602
Lentinula edodes 2359
melons 414
Momordica charantia 10791
mushrooms 3347, 3351, 4268
olives 865, 4552
Oncidium 6178
Parthenium argentatum 2575
peas 3185, 4172
Petunia 3401
Phaseolus vulgaris 4165, 8595
Pimpinella anisum 10752
Piper nigrum 4439
plants 8226
Pyrus pyrifolia 7539
radishes 394, 5885
Rosa damascena 6206
spinach 1297, 1299, 3117, 9868
Stevia rebaudiana 9868
stone fruits 70
tea 2766
tomatoes 2310, 4250, 6938, 10558, 10571

browning

Lentinula edodes 9632
Litchi 1758
mushrooms 3340

Enzyme activity cont.

browning cont.
Pyrus bretschneideri 3896
cadmium
Cucurbita maxima 10364
peas 10364
Phaseolus vulgaris 10364
calcium
apples 1985
kiwifruits 1188
carbohydrates, *Lentinula edodes* 9633
carbon dioxide
Agave salmiana 8108
Opuntia ficus-indica 7257, 8108
peas 2251, 5965
cold, tomatoes 3295
cultivars
lettuces 7694
tomatoes 4247
cultural methods
Capsicum 5996
grapes 302
guavas 10944
lettuces 368
Pyrus bretschneideri 6633
determination
Phaseolus vulgaris 8594
spinach 5839
tomatoes 6030
development
apples 5622
chicory 7682
Hevea 10990
peaches 3876
peas 2261
Phaseolus vulgaris 6852
tomatoes 4246, 7825
disorders
mandarins 7222
oil palms 2728
tomatoes 5131
diurnal variation
Aptenia cordifolia 10692
pineapples 936
Sedum aizoon 10692
fertilizers
Brassica 9478
celery 8711
lettuces 9461
melons 6416
pears 1163
flooding, *Momordica charantia* 10465
flowering
apples 9165
Gardenia jasminoides 10756
peaches 9165
pears 9165
Pharbitis nil 4288
satsumas 3604
fluorine, peas 10503
forcing, grapes 8484
fructification, *Lentinula edodes* 9633
fruiting
apples 1112
Capsicum 7778
oranges 7214
peaches 176
gamma radiation, pawpaws 9064
genetic transformation, tomatoes 8694
geotropism, *Vicia faba* 10498
germination
coconuts 2688
cucumbers 7732
Cucurbita ficifolia 397
Cucurbita pepo 10486
Nelumbo nucifera 672
okras 6886
peas 10500
Phaseolus vulgaris 5931-5932, 10486
watermelons 1810
growing media
chrysanthemums 3389
Pleurotus 10593
herbicides
peas 9492
radishes 9492
tomatoes 3298, 9578
vegetables 3082
in vitro culture
apples 5619
Asparagus 457

Enzyme activity cont.

in vitro culture cont.
blackberries 6654
carrots 6957, 9621
chicory 1302
grapes 297-298, 8483
lemons 9892
limes 3603
Limonia acidissima 8035
Mesembryanthemum crystallinum 5244
oranges 4515
Spathiphyllum floribundum 6163
strawberries 4886
tea 4644
Vaccinium macrocarpon 3930
walnuts 2985-2986
inhibitors
carnations 1535-1536
cucumbers 8563
kiwifruits 540
leeks 4030
lettuces 9466
mangoes 9058, 9981
Momordica charantia 6834
passion fruits 10890
peas 1399
Phaseolus vulgaris 5944
spinach 3116
tomatoes 540, 3306
Zinnia 7014
light
Amaranthus hypochondriacus 4301
Chinese cabbages 10442
cucumbers 4148, 4151
Cyamopsis tetragonoloba 2243
Gomphrena globosa 4301
horticultural crops 4287
passion fruits 7253
peas 2252
Pharbitis nil 4287
Phaseolus vulgaris 2235
spinach 5840, 8501
maturity
avocados 3577
bananas 6383
models, spinach 5840
molybdenum, tea 11008
mycorrhizas
chives 10395
leeks 5791
lettuces 9461
sour oranges 7201
tea 955
Ziziphus nummularia 5519
Ziziphus xylopyrus 11017
nitrogen, *Phaseolus vulgaris* 9524
nutrition, tomatoes 3293
phenolic compounds, *Lentinula edodes* 9633
photoperiod
Dendrobium ekapol 4377
spinach 4973
physiology
Antirrhinum 6086
beetroots 2143, 5837
broccoli 1342
carrots 5837
cucumbers 413, 5896
Lentinula edodes 3361
Opuntia ficus-indica 4564
peas 447
Phaseolus vulgaris 5943
Spathiphyllum 689
tomatoes 5121
Vaccinium 7577
Zinnia 7014
plant extracts, *Pleurotus ostreatus* 10598
plant growth regulators
apples 9204
Capsicum 5080, 5663
carrots 9621
chicory 1302
Citrus 843
cucumbers 2211, 5028, 5911
Cucurbita maxima 5913
guavas 10944
Hevea 3683
lettuces 9466
mangoes 9981
peaches 5663

Enzyme activity cont.

plant growth regulators cont.

peas 2253, 6869

Pharbitis purpurea 3398

radishes 4125, 6803

plant nutrition

Amaranthus 3323

apples 1957, 8285

cucumbers 2205

Cucurbita pepo 8501*Cyamopsis tetragonoloba* 5962

grapes 1239, 8483

lemons 6330

lettuces 1312, 9465

mushrooms 6064

peas 5965, 8501

Tagetes erecta 7888

tea 959, 7359

tomatoes 10491

pollution

cucumbers 9505

Cucurbita pepo 9504

lettuces 10411

peas 6859, 6869

Phaseolus vulgaris 421, 1378, 5043

tomatoes 7795, 9578

Vicia faba 3203

potassium

Cymbidium sinense 1604*Litchi* 4542

reproduction

apples 9166

peaches 9166

pears 9166

ripening

apples 4707, 7501, 9202

avocados 3577, 4707

bananas 7277, 8126

blackberries 4875

Capsicum 480

figs 9275

kiwifruits 222, 2041, 2998, 10274

mangoes 9981, 10974

oranges 4707

passion fruits 8990

pawpaws 931, 2733, 9064

peaches 3877, 3879, 9299

Pyrus pyrifolia 2016

tomatoes 538-539, 1468, 2317, 4246-4247, 5128, 7824, 7826

salinity

Mesembryanthemum crystallinum
3454, 4365, 5244

oranges 834

radishes 7721

Simmondsia chinensis 10805

sour oranges 7201

spinach 4973

tomatoes 1449

Vicia faba 5955

seasonal variation

Aptenia cordifolia 10692*Sedum aizoon* 10692

tea 2766

seed treatment, tea 11002

senescence

broccoli 8556

carnations 1535-1536, 6090

cherries 4817

Chinese cabbages 1341

Ixia 659*Mirabilis jalapa* 4311*Petunia* 609

tulips 9709

shade, lettuce 363

soil amendments, *Phaseolus vulgaris*

6845

spacing, *Calendula officinalis* 9681

storage

apples 3802-3803, 4800, 9217, 10163

aubergines 7786

avocados 815-816

bananas 3652

blackberries 4876

broccoli 4121, 7712

Castanea crenata 4819*Castanea mollissima* 1995

cherimoyas 8109

chicory 7682

Citrus 843

coconuts 9953

Enzyme activity cont.

storage cont.

Cola nitida 9036*Cucurbita pepo* 5040, 5925

guavas 7318, 10947

kiwifruits 222, 2041

lettuces 1317, 2171-2172, 7694

mandarins 3609, 10863

mangoes 4633

peaches 4839, 5669, 6627, 9301, 10222

pears 194

Pyrus bretschneideri 3894

quinces 4861

tomatoes 3269, 5131, 10222

Ziziphus mauritiana 967

temperature

Amaranthus lividus 557

bananas 886, 1786, 3651

Chinese cabbages 5873

cucumbers 410, 4131, 6839

Cucurbita ficifolia 410

grapes 7633

oil palms 7344

ultraviolet radiation, cucumbers 5026

water stress

Aptenia cordifolia 10692*Dendrobium ekapoi* 4378

grapefruits 7210

Sedum aizoon 10692

zinc, tea 11008

Enzymes

biochemistry

Borago officinalis 7131

calamondins 2616

carrots 5138

Catharanthus roseus 8913*Cinnamomum camphora* 5309

cucumbers 324, 5916

Cucurbita maxima 5032

grapes 3993

Hemerocallis fulva 6522*Iris* 6522

oil palms 7344

onions 6522

Parthenium argentatum 7187

peas 6522

Phaseolus vulgaris 425, 8597

plants, reviews 1913

Prunus 2849

raspberries 6657

spinach 349, 2150, 3115, 4059, 4976, 10400

Tephrosia purpurea 10801

tomatoes 324, 2311, 6944

Vicia faba 435, 5959

biosynthesis

leeks 5795

peas 448

characterization

Acanthophaenix rubra 7843*Actinidia* 8396*Agave angustifolia* 5326*Ajuga* 5179*Amaranthus viridis* 4259, 6055

apples 125, 5619, 6581

avocados 1710, 6307

bananas 2679, 8126

beetroots 4054

broccoli 2186

cabbages 390

Capsicum 1419

carnations 7863

carrots 5137, 5139, 5142

Catharanthus roseus 2539, 4413, 4456, 8914

celery 3320

cherimoyas 8999

Clarkia breweri 611

cocoa 9021

Coprinus cinereus 573*Coptis japonica* 1681

cucumbers 2212, 2214, 4149, 5912, 5918, 9518

Cucurbita maxima 5033, 10476*Cucurbita pepo* 4150, 5035, 10486*Digitalis purpurea* 1683*Dorotheanthus bellidiformis* 9739*Ficus elastica* 8047

grapes 2097, 4929, 7634, 9404

Hevea 946, 1845, 6448, 10998**Enzymes cont.**

characterization cont.

Jerusalem artichokes 352

kiwifruits 8396

leeks 5794, 5796

Lentinula edodes 6068

lettuces 5849, 7693, 8538

Litchi 1745*Lithospermum erythrorhizon* 10790*Lycium chinense* 7168melons 414, 2709, 9518
Mesembryanthemum crystallinum
8828*Metroxylon sagu* 982*Morchella conica* 576

mushrooms 570, 3348-3349, 6973

Nepeta racemosa 7144*Nicotiana glauca* 4312

ornamental plants 1527

passion fruits 867

pawpaws 930

peas 450-452, 1397, 2255, 2258, 3219, 5059, 5979, 6857, 6862, 6872

Petroselinum crispum 1667*Petunia* 3400*Phaseolus vulgaris* 426, 10486*Phlebodium aureum* 5223*Phytolacca americana* 6289, 7176

plants 1049, 7426

Pleurotus ostreatus 6073, 9636

pumpkins 6833

radishes 394, 2191, 7722, 10457

roses 5276

Salvia officinalis 3528*Simmondsia chinensis* 7181

spinach 348, 1298, 2148, 2151, 3113, 3116, 3118-3119, 4060, 4971-4972, 4974, 4977-4978, 6767, 6769, 6771, 7680, 8520, 8522, 10402-10403

Stevia rebaudiana 3560

strawberries 3948

tea 7363

tomatoes 536, 1463, 3304, 5120, 5128, 6937, 6940, 6943, 9611, 10558

watermelons 3671

Welsh onions 4051-4052

composition

cucumbers 1367

figs 5647

grapes 4901

oranges 4512

peas 1367, 4174

Portulaca grandiflora 9745

pumpkins 5914

Pyrus ussuriensis 189*Solanum dubium* 9867

tea 7363

determination

apples 1971

olives 860, 2651

peaches 3879

peas 449, 5981

Phaseolus vulgaris 5049

tomatoes 2315

extraction

cocoa 893

coffee 7306

kiwifruits 3002

mushrooms 569

peaches 3879

Phaseolus vulgaris 10494*Vicia faba* 5958

metabolism

biochemistry, *Petunia* 4295

cold

bananas 3651

tomatoes 4237

copper, ornamental plants 2374

development

mangoes 4629

tomatoes 4246

diurnal variation, *Phaseolus vulgaris*

2238

fruiting, peaches 176

germination

cucumbers 5014

peas 10487

Phaseolus vulgaris 10487

Enzymes cont.

metabolism cont.
germination cont.
radishes 5881
tomatoes 6009
in vitro culture
Bambusa vulgaris 4411
Cucurbita maxima 5920
light, spinach 8501
photoperiod, cherries 8333
plant growth regulators, bananas 886
plant nutrition
Cucurbita pepo 8501
peas 8501
ripening
apples 4792
Capsicum 481, 8637
kiwifruits 4792
mangoes 1832, 4632
Pyrus pyrifolia 7539
tomatoes 4246, 6945
salinity
Mesembryanthemum crystallinum 6162
oranges 1724
tomatoes 534
senescence
cucumbers 1368
mushrooms 3334
storage, apples 9217
sugars, spinach 7677
temperature
bananas 886
cucumbers 5025
tomatoes 5025
ultraviolet radiation
peas 6027
tomatoes 6027
wounds, tomatoes 6945
taxonomy
carrots 2320
chestnuts 6605
Chinese cabbages 7715
Citrus 820, 4491, 8937-8938
Fortunella 4491, 8937
grapes 2078, 3951, 7596, 8439-8440
Lythrum 7009
Malus 1928
persimmons 4558
Phaseolus 8588
pistachios 6637
Poncirus 4491, 8937
Pyrus 7532
radishes 7715
Ribes 1189
Vigna aconitifolia 8588
watermelons 904
ultrastructure
cucumbers 2213
Mesembryanthemum crystallinum 1593
Mimosa pudica 2511
Eotetranychus carpinii f. viuis, grapes 9412
Eotetranychus coryli, hazelnuts 1140
Eotetranychus pruni, grapes 7621
Epacris hamiltonii, characteristics 2370
Ephedra distachya, plant, morphology 8030
Ephedra equisetina, cultural methods, China 7155
Ephedra intermedia, cultural methods, China 7155
Ephedra sinica, cultural methods, China 7155
Ephedrus cerasicola, control, of Aphis gossypii, cucumbers 407
Epicoccum nigrum, control, of Monilinia laxa, peaches 5662
Epidendrum, taxonomy, nomenclature 7056
Epidendrum obrienianum, pest control, Stethopachys formosa 1608
Epigeneium triflorum, cultural methods, UK 10707
Epilachna elaterii, melons 3670
Epilachna vigintisexspunctata philippinensis, aubergines 2287
Epimedium, cultural methods, UK 8770
Epimeredi indica, pollination, biology 8010
Epipactis helleborine, seeds, germination, tests 3461
Epiphyas postvittana
apples 3792, 9195

Epiphyas postvittana cont.
peaches 9296
Epiphyllum phyllanthus, geographical distribution 7044
Epiphytes, Dendrobium crumenatum 2445
Epipremnum pinnatum
chloroplasts, biochemistry 5238
plant growth regulators, paclobutrazol, responses 6158
pot plants
production, cultural methods 4364, 6158
storage 10607
Episcia cupreata
cold, responses 4017
respiration, temperature 4017
Episyphus balteatus, pollinators, apples 2910
Epulorhiza, mycorrhizas, Microtis parviflora 702
Epulorhiza repens
mycorrhizas
Dactylorhiza 2436
Microtis parviflora 702
Orchis morio 2436
Eragrostis minor, as weeds, Capsicum 7773
Eranthis hyemalis, electrical properties, temperature 2411
Eremochloa ophiuroides
as cover crops, peaches 9287
cultural methods, China 4345
drought, resistance, assessment 10667
economics, USA 1580
plant, development, temperature 10676
transpiration, measurement 4356
Eremophila serpens, characteristics 2370
Eremurus, ornamental value 9712
Eremurus altaicus, flowers, development, anatomy 6134
Eretmoceris californicus
control
of Hemiptera
ornamental plants 3080
vegetables 3080
Eretmoceris debachi, control, of Parabemisia myricae, Citrus 1732
Eria pauciflora, soilless culture, cultural methods 2439
Erica
disease control, Rhizoctonia 3479
frost, resistance, assessment 7079
Erica mackaiana, reproduction, biology 7080
Erigeron canadensis (see Conyza canadensis)
Erigeron sumatrensis, as weeds, tea 9091
Eriobotrya (see also Loquats)
Eriococcus lagerstroemiae, persimmons 8992
Eriosoma lanigerum
apples 137, 2904, 5613
fruit crops 7479
pome fruits 66
Eristalis tenax, pollinators, apples 2910
Erodium, taxonomy, chemotaxonomy 2546
Erodium absinthoides, taxonomy, chemotaxonomy 2546
Erodium acaule, taxonomy, chemotaxonomy 2546
Erodium cicutarium, taxonomy, chemotaxonomy 2546
Erodium manescavii, taxonomy, chemotaxonomy 2546
Erodium pelargoniflorum, taxonomy, chemotaxonomy 2546
Erosion
control
cultural control
beetroots 4938
carrots 4938
leeks 4938
cultural methods, tea 10012
mulches, Hevea 2747
protective plants, temperate fruits 5585
slopes
cabbages 5002
carrots 5134
cauliflowers 5002
lettuces 5134

Eruca vesicaria subsp. sativa
fertilizers, nitrogen 9826
plant, composition 10368
Erwinia
bananas 6376
control
of Botrytis cinerea
apples 6588
pears 6588
epiphytes, tea 10019
root inoculation, grapes 6705
Erwinia amylovora
apples 1086, 3786, 7440, 8292
fruit crops 7479
Malus 4424
pears 1086, 6628, 7440, 8292
pome fruits 4720
Erwinia carotovora
cauliflowers 10447
tomatoes 2305
Erwinia carotovora subsp. carotovora, Primula obconica 3402
Erwinia chrysanthemi, chicory 9456
Erwinia chrysanthemi pv. paradisiaca, bananas 2678
Erwinia herbicola, control, of Erwinia amylovora, apples 3786
Erwinia tracheiphila, melons 910, 3664
Erymophyllum ramosum
seeds
germination
light 594
seed treatment 594
temperature 594
Eryngium, cut flowers, production, cultural methods 5184
Eryngium foetidum
storage
packing 4433
temperature 4433
Erysimum scoparium, in vitro culture, explants, sources 6282
Erysiphaceae, poinsettias 720
Erysiphe cichoracearum
cucumbers 4126, 7727
Cucurbita pepo 5887
Dahlia 5195
okras 9552
Erysiphe cruciferarum, Rhododendron 7092
Erysiphe graminis
peas 3213
Poa pratensis 4344
Erysiphe polygoni
Coriandrum sativum 2528, 6245
Trigonella foenum-graecum 10803
Erythrina indica, plant residues, utilization, soil amendments 9821
Erythrina poeppigiana
as shade plants
cocoa 2681
coffee 8139
Erythronura elegantula, grapes 8476
Erythronium japonicum
anthers, composition 6135
pollen, composition 6135
Erythroxylum coca
leaves
composition 1684
development
light 8922
temperature 8922
production, Bolivia 10784
Erythroxylum novogranatense
leaves
development
light 8922
temperature 8922
Esca, grapes 9413
Eschscholzia californica
plant, composition 7880
seeds, treatment, plant growth regulators 7004
Essential oil plants
books 1859, 9112
conferences 6479, 7400, 10048-10050
cropping systems
agroforestry 2526, 2535
intercropping 3655
databases 7984
intercropping
coconuts 3655

Essential oil plants cont.

intercropping cont.

Populus deltoides 2526

manures 3520

pollution, heavy metals 9815

production

Brazil 8003

India 6491

production possibilities 10764

Argentina 7403

wild plants

conservation, Slovenia 5328

genetic resources, Slovenia 5328

Essential oils

biochemistry

calamondins 9897

Citrus latifolia 5411*Citrus sudachi* 4535*Citrus tagamasudachi* 5411*Coriandrum sativum* 7139

grapefruits 4535

lemons 6345

Petasites japonicus 6781*Salvia officinalis* 10766

books 8183

composition

Boronia megastigma 2527*Chamomilla recutita* 8006*Curcuma longa* 8917

hops 6271

Pelargonium capitatum 5318*Pelargonium roseum* 5319

conferences 1004, 10048-10050

exudation, *Melaleuca alternifolia* 8904

metabolism

development

Mentha 1674*Mentha arvensis* 5314light, *Thymus vulgaris* 3530photoperiod, *Origanum majorana*

3526

pollution, *Coriandrum sativum* 764

storage, lemons 7225

production

Bulgaria, *Rosa damascena* 10765

cultural methods

Angelica archangelica 1672*Cinnamomum camphora* 8007*Coriandrum sativum* 7988, 10757*Cymbopogon martinii* 5310,

10759

Cymbopogon winterianus 10760

fennel 8903

Melissa officinalis 4461*Mentha* 5311*Mentha arvensis* 2530*Ocimum gratissimum* 10762*Salvia officinalis* 3529*Salvia sclarea* 5322*Tagetes patula* 6256*Viola odorata* 9837-9838in vitro culture, *Mentha piperita* 3523photoperiod, *Perilla frutescens* 5320

responses

apples 8305

peaches 8305

tulips 4332

taxonomy

Clerodendrum 2496*Origanum vulgare* 5317ultrastructure, *Stevia rebaudiana* 2533**Esters**characterization, *Cereus peruvianus* 8823

composition

Brugmansia candida 10729*Calanthe* 10698

kale 391

Petunia 6104*Spondias dulcis* 3695

swedes 391

Vitis 2098

metabolism

ripening

apricots 10186

Pyrus ussuriensis 10242

storage

nectarines 185

peaches 185

responses, *Matthiola incana* 617**Estonia**, apples, cultivars 6539**Ethiopia***Elettaria cardamomum*, production possibilities 7142

horticultural crops, surveys 8197

Opuntia ficus-indica, production 7255*Phytolacca dodecandra*, cultivars 9843*Pleurotus ostreatus*, cultural methods 6984**Ethnobotany**, books 8176, 10033, 10041**Ethylene** (see Plant growth regulators)**Eucalyptus**

photosynthesis, light 5576

utilization, shelterbelts 1825

Eucalyptus grandis

planting stock, production, containers

2467

roots, development, cultural methods

2467

Eucalyptus torrelliana, utilization, shelterbelts 7209**Eucheuma denticulatum**

photosynthesis, light 6296

plant, biochemistry 10807

Eucheuma isiforme, production possibilities, Mexico 10808**Eucomis autumnalis**, in vitro culture, propagation, micropropagation 4334**Eucomis comosa**, in vitro culture, propagation, micropropagation 4334**Eucomis pole-evansii**, in vitro culture, propagation, micropropagation 4460**Eucomis zambesiaca**, in vitro culture, propagation, micropropagation 4334**Eucommia ulmoides**

climate, China 2554

cuttings, development, physiology 2548

fruits, development, anatomy 2547

in vitro culture

culture media 2552

somatic embryogenesis 2552

leaves, biochemistry 2550

plant

development

biochemistry 2550

cultural methods 2551

soil types 2551

plant water relations, physiology 2549

production, China 2553

research, reviews 2555-2556

seeds, development, anatomy 2547

Eucosma notianthes, carambolas 10021**Eugenia** (see also Syzygium)**Eugenia uniflora**

fruits, characteristics 7166

leaves, characteristics 7166

Eulophia pulchra, cultural methods, UK 7937**Eulophiella elisabethae**, cultural methods, USA 7058**Eulophiella roempleriana**, cultural methods, USA 7058**Eulophus pennicornis**, control, of *Lacanobia oleracea*, tomatoes 5107**Euonymus**, species, pest resistance 6217**Euonymus carnosus**, seeds, dormancy, physiology 2499**Euonymus fortunei**, cultivars, pest resistance 6217**Euonymus japonicus**

cultivars, pest resistance 6217

leaves, variegation, biochemistry 9804

Euonymus kiautschovicus

cultivars, pest resistance 6217

photosynthesis

light 709

photoinhibition 708, 4695

Euphorbia (see also Poinsettias)**Euphorbia antisiphylitica**, plant, composition 2573**Euphorbia cornastra**, pot plants, development, photoperiod 9805**Euphorbia forolensis**, taxonomy, new taxa 5239**Euphorbia fulgens**, nectarines 3487**Euphorbia geniculata**, as weeds, onions 5820**Euphorbia hirta**

as weeds

Citrus 9884

mangoes 9884

Euphorbia humistrata

as weeds

bedding plants 2377

Gardenia jasminoides 6220**Euphorbia lathyris**, allelopathy 8211**Euphorbia maculata**

as weeds

Gardenia jasminoides 6221

ornamental plants 1522

Euphorbia milii

nectaries 3487

shoots, composition 9740

Euphorbia pachysantha, inflorescences, anatomy 7045**Euphorbia pseudocactus**, nectarines 3487**Euphorbia radicans**, characteristics 9741**Euphorbia strigosa**, characteristics 9741**Euphorbia supina**, as weeds, lawns and turf 6144**Euphorbia versicolores**

characteristics 10684

taxonomy, new taxa 1592

Euphoria (see *Dimocarpus*) (see also Longans)**Euphyllura olivina**, olives 5427**Eupoecilia ambigua**, grapes 286, 5760, 7622-7623, 9412, 10341**Eupomatia laurina**

ovules, morphology 2834

wild plants, edible species 1018

Europe**Allium**

disease control 10366

pest control 10366

apples, rootstocks, research 79

Asparagus, hybrids 3223

chestnuts

production 1137

research 1137

Citrus, economics 5361

fruit crops, research 24, 5551

mushrooms, cultural methods 8726

pome fruits, pest control 2844

strawberries

cultivars 2057

production 3931

European Union, grapes, legislation 7600**European Union countries**, almonds, marketing 74**Eurya japonica**, flowers, sex, assessment 733**Euryale ferox**

cultural methods, Taiwan 6964

plant, composition 6964

Eurytoma plotnikovi, *Pistacia chinensis* 738**Euseius tularensis**

control

of *Scirtothrips citri*, *Citrus* 2604*Scirtothrips citri*, oranges 8951**Eustoma**, flowers, development, temperature 612**Eustoma grandiflorum**

breeding, genetic transformation 8773

cultivars, assessment, UK 7005

cut flowers

preservatives 8771

production, cultural methods 3414

quality, light 9685

senescence 8771

flowers

colour

biochemistry 8773

light 9685

development

photoperiod 4299

temperature 4299

in vitro culture, protoplasts 8772

pot plants, quality, light 9685

soilless culture

nutrient solutions, composition 3413

systems, assessment 3414

Euterpe edulis, economics, Brazil 7376**Euterpe oleracea**, cropping systems, agroforestry 6465**Eutetranychus orientalis***Citrus* 8069

okras 9555

Eutrema wasabi

fertilizers, nitrogen 3159

in vitro culture, storage 4436

soil conditioners, responses 3159

- Eutypa lata*, grapes 1222, 4923, 10339
Euwallacea fornicatus, tea 1849, 3689
Evolvulus pilosus, flowers, colour, biochemistry 4300
Exochorda serratifolia, cultivars, characteristics, USA 9768
- Fabaceae**
 as cover crops
 temperate fruits 2842
 tropical crops 3637
 as green manures, Chinese cabbages 1329
 as weeds, ornamental woody plants 7071
- Fabrics**
 utilization
 growing media, tomatoes 8667
 pest control, grapes 288
 protected cultivation
 strawberries 3939
 watermelons 2702
- Fagraea fragrans*, shoots, abnormal development 2498
- Fagus sylvatica*
 cuttings, rooting, mists 7968
 plant, injuries, surveys 2463
 planting stock, production, cultural methods 7968
 pollution, ammonia 8843
- Fallopia convolvulus*
 as weeds
 Asparagus 7763
 vegetables 320
- Farmyard manure**
 utilization
 disease control, cucumbers 9511
 fertilizers
 Borassus flabellifer 1856
 Brassica chinensis 8550
 cabbages 379, 4095
 Capsicum 5074, 8625
 kohlrabi 4993, 8531
 Lactuca indica 2161
 leeks 4095
 lettuces 4993, 7695, 8531, 9464
 melons 6414
 pears 1163
 Penunia 2161
 Phytolacca dodecandra 9843
 satsumas 10840
 strawberries 4889-4891
 Zingiber officinale 7136
 growing media
 Codiaeum 7920
 Dieffenbachia 7920
 edible fungi 2334
 Opuntia microdasys 684
 strawberries 10294
 Syzygium aromaticum 8019
 mulches, raspberries 1194
 pest control
 aubergines 1453
 cucumbers 6822
 tomatoes 1453
 soil amendments
 broccoli 4940
 cabbages 4940
 Coriandrum sativum 3083
 Cuminum cyminum 745
 Cyamopsis tetragonoloba 745
 garlic 3083
 onions 3083
 peaches 3855
 Phaseolus vulgaris 4940
 spinach 347
 strawberries 2065
 tomatoes 4940
- Fats**
 composition
 Cookeina sulcipes 3357
 Ficus 10202
 persimmons 4561
 Physalis ixocarpa 6369
 metabolism
 maturity, bananas 6383
 physiology, *Paeonia lactiflora* 2562
 ripening, grapes 3067
- Fatty acids**
 biochemistry
 cauliflowers 4115
 leeks 4028
 peas 2256
- Fatty acids cont.**
 biosynthesis, leeks 4030
 characterization
 Cereus peruvianus 8823
 spinach 1296
 composition
 cabbages 4122
 Cantharellus cibarius 7852
 Cantharellus tubaeformis 7852
 Duranta erecta 10804
 kale 391
 Lepista nuda 8734
 Oenothera biennis 769
 oil palms 926, 2729
 olives 863
 ornamental plants 2417
 Pharbitis nil 6999
 Physalis pubescens 10305
 plants, books 9117
 pomegranates 2663
 Prunus laurocerasus 3552
 small fruits 5701
 swedes 391
 tomatoes 1465
 walnuts 10260
 Zantedeschia aethiopica 1559
- metabolism
 biochemistry, garlic 7659
 development
 Dioscorea tokoro 8918
 loquats 858
 olives 10887
 Trichosanthes cucumerina 5922
 germination, *Dioscorea tokoro* 8918
in vitro culture, *Aegle marmelos* 1768
 light, *Cucurbita moschata* 9519
 mycorrhizas, leeks 6748
 pollination, *Phalaenopsis* 10713
 processing, cocoa 2684
 ripening
 melons 9047
 peaches 179
 small fruits 5701
 salinity
 olives 10887
 Simmondsia chinensis 10805
 storage
 broccoli 4121
 chestnuts 6607
 kiwifruits 8401
 mandarins 8969
 olives 4554
 pears 192
 temperature
 Cucurbita moschata 9519
 Dioscorea tokoro 8918
 Isochrysis 5347
 loquats 858
 Nitzschia 5347
 Ocimum basilicum 6266
- responses
 Citrus hassaku 844
 peaches 7530
- Feijoas**
 cultivars, composition 2631
 fruits, composition 2631
in vitro culture
 histology 6347
 propagation, micropropagation 8971
 somatic embryogenesis 6347
 production possibilities, Argentina 5357
- Fennel**
 cropping systems, intercropping 9440-9441
 cultivars, characteristics, Italy 6053
 cultural methods, India 8903
in vitro culture, somatic embryogenesis 1492
 intercropping, potatoes 9440-9441
 irrigation
 water
 salinity 10745, 10751
 sources 2111
 pest control, *Meloidogyne javanica* 7992
 reports, Belgium 1884, 1888, 9127
 seedlings, movement, assessment 6136
 seeds
 composition 3521
 production, cultural methods 10751
 viability, tests 6246
 soil salinity, responses 3077
- Fennel cont.**
 weeds, surveys, India 6262
 yields, pests 5303
- Fenugreek** (see *Trigonella foenum-graecum*)
- Ferns** (see also Ornamental ferns)
 reviews 10082
- Ferocactus peninsulae**
 seeds, germination, physiology 8829
 water stress, responses 8829
- Feronia** (see *Limonia*)
- Ferredoxin**, characterization, radishes 395
- Ferrisia consobrina**, pomegranates 6365
- Ferrisia virgata**, aubergines 2287
- Fertilizers** (see also Individual elements)
 application
 application date
 apples 97, 2874, 10121
 bananas 10910
 cabbages 4097
 Capsicum 4186
 cauliflowers 4098
 gooseberries 4874
 peaches 4833
 pears 188
 tea 956, 5512
 application method, apples 97
 application methods
 avocados 799, 6304, 6306, 7190
 cauliflowers 383
 Citrus 4509
 lawns and turf 9723
 Lilium longiflorum 1566
 peaches 2001, 9290
 tea 9095-9096
 Telfairia occidentalis 10469
 Viola odorata 9837
 economics, tea 957, 10013
 fertiligation
 Alocasia regina 7042
 apples 1083, 1956, 2869, 2877, 2879, 2885
 avocados 7190
 Capsicum 4186, 4188
 cherries 6599
 cucumbers 9508
 grapefruits 5370
 horticultural crops, reviews 8220
 Lilium longiflorum 1566
 melons 8143, 10934
 peaches 9290
 Phalaenopsis 7940
 Phaseolus vulgaris 8593
 strawberries 3942, 8428, 9366
 tomatoes 3279, 5085, 8660
 vegetables 3075
 foliar application
 Alocasia regina 7042
 apples 2881, 6578, 8284, 10121
 avocados 799, 6304, 6306, 7190
 black currants 6647-6648
 cashews 9944
 cauliflowers 9480
 cucumbers 6819
 Elettaria cardamomum 6260
 gooseberries 4874
 grapes 3052
 guavas 7317
 lemons 7205
 lettuces 4075
 Litchi 855
 mandarins 10856
 mangoes 1830, 9979
 olives 3625
 onions 4042, 7670
 oranges 2594, 4508, 10856
 peaches 2956, 2959
 pears 2956
 raspberries 3922
 roses 5272
 satsumas 10840
 spinach 1294
 tea 8166, 10014
 tomatoes 8674, 10556
 Vaccinium corymbosum 6664
 Viola odorata 9837
 injection, oranges 10843
 placement
 apples 8280
 cabbages 4097
 cashews 9943
 cauliflowers 4098, 7706

Fertilizers cont.

application cont.

placement cont.

Lagerstroemia indica × *Lagerstroemia fauriei* 6227
ornamental woody plants 4428

types

liquid fertilizers

Alocasia regina 7042

apples 10120

Hebe 3505

horticultural crops, reviews 8220

Nyssa sylvatica 6230*Quercus rubra* 6230

tomatoes 4223

nitrogen

Anethum graveolens 8004

apples 105, 7475

Capsicum 4188-4189*Catharanthus roseus* 3542*Citrus* 5378, 9888*Corchorus tridens* 4261*Coriandrum sativum* 8004

culinary herbs 9826

Hevea 942*Juglans nigra* 10258

lawns and turf 4347-4349, 5210

lettuces 364, 2163, 2170, 2173-

2174, 3128, 4075, 4995,

10419

Maytenus aquifolium 5341

onions 3094, 7669

peaches 2954

pears 2954

Piper betle 6298, 8048, 9866*Rhododendron* 4399

strawberries 9367

tea 957

tomatoes 2303, 5099

organic fertilizers 4013

Borassus flabellifer 1856*Brassica chinensis* 8550

broccoli 4940

cabbages 4940

Capsicum 473

carambolas 9104

carrots 5135

Citrus 5378*Cypripedium macranthum* 10704*Gladiolus* 6788

grapes 1238

Impatiens 4316

lawns and turf 4347

lettuces 4941, 4994, 7695, 10412

Maytenus aquifolium 5341*Phaseolus vulgaris* 4940

spinach 4941

Tagetes erecta 4316

tomatoes 4940

Trigonella foenum-graecum 4941

vegetables 6788, 8497

phosphorus

peaches 2955

pears 2955

Rhododendron 4399potassium, *Maytenus aquifolium* 5341

slow release fertilizers 2827

apples 6187

Capsicum 5076*Chamaerops humilis* 8831

cherries 6187

Citrus 5378, 7203*Epipremnum pinnatum* 4364*Impatiens* 4316*Kalanchoe* 3451

kiwifruits 2992

Lagerstroemia indica × *Lagerstroemia fauriei* 6227

lawns and turf 4347

Nyssa sylvatica 6230

ornamental woody plants 6187

Philodendron bipinnatifidum 8831*Piper betle* 6298*Quercus rubra* 6230

spinach 8518

Tagetes erecta 4316

tomatoes 3283

sulfur, garlic 4024

Festuca

pest control

Lepidoptera 5213

Festuca cont.

pest control cont.

Schizaphis 5213**Festuca arundinacea**

as cover crops

grapes 3034, 3967, 7612

peaches 9288-9289

cultivars

disease resistance 10664

herbicides 8806

identification 9719

drought, resistance, assessment 10667

grass clippings 3720

herbicides

injuries 6141

responses 8806

leaves, water, measurement 8797

pest control

Lepidoptera 5213

Schizaphis 5213

photosynthesis, photoinhibition 6154

plant competition, *Zoysia matrella* 7910

seeds

germination, seed treatment 7909

production, cultural methods 8813

transpiration, measurement 4356, 10675

water stress, responses 7036

weed control 6141, 8801, 8805

Festuca longifolia

as cover crops, apples 9185

plant competition, *Zoysia matrella* 7910

seeds, germination, seed treatment 7909

Festuca nigrescens

cultivars, identification 7908, 9719

cultural methods, golf courses 6140

plant competition, *Zoysia matrella* 7910

quality, assessment 7911

seeds

germination, seed treatment 7909

mixtures 7908

shade, responses 4344

Festuca ovina

respiration, biochemistry 4162

water stress, responses 7036

Festuca rubra

as cover crops

apples 1076

grapes 3967-3968

peaches 9289

fertilizers, nitrogen 4347-4349

seeds, production, cultural methods 8813

shade, responses 4343

species, assessment, Germany 4341

weed control 667

Festuca rubra subsp. rubra

seeds, germination, seed treatment 7909

shade, responses 4344

Festuca rubra subsp. trichophylla

cultural methods, golf courses 6140

shade, responses 4344

Festuca trachyphylla

cultivars, identification 7908

seeds, mixtures 7908

Fibre

composition

Annona coriacea 8110*Capsicum* 7832

edible fungi 1497, 6972

Ficus 10202

grapes 10575

guavas 7832

Osmunda japonica 1497*Physalis ixocarpa* 6369*Rubus* 9348

spinach 8517

tomatoes 7832, 10575

metabolism

cultivars, okras 3227

fertilizers, leeks 9435

irrigation, tomatoes 504

maturity

okras 3227

Vigna unguiculata 6876

mulching, tomatoes 504

physiology, *Paeonia lactiflora* 2562plant growth regulators, *Gerbera*

8757

seasonal variation, algae 3325

storage, *Asparagus* 6883**Ficus** (see also Figs)**Ficus auriculata**

cuttings, treatment 8344

fruits, composition 10202

Ficus benghalensis, electrical properties, measurement 8848**Ficus benjamina**

cuttings, rooting, growing media 10686

growing media, composition 8825,

10687-10688

in vitro culture, propagation, micropropagation 7046

leaves, areas, assessment 3450

pot plants

production, cultural methods 8825

storage 10607

translocation, measurement 5240

Ficus copiosa, wild plants, edible species 1018**Ficus cunia**, cropping systems, agroforestry 824**Ficus elastica**

cuttings, rooting, growing media 10685-10686

electrical properties, measurement 8848

laticifers, pressure 6446

plant, biochemistry 8047

plant water relations, measurement 6446

Ficus glomerata, fruits, composition 10202**Ficus infectoria**

cuttings

rooting

growing media 6218

seasonal variation 6218

Ficus lepreurii, pot plants, production, cultural methods 5219**Ficus macrophylla**

cuttings, rooting, growing media 10685

pollination, pollinators, *Pleistodontes**imperialis* 8877

taxonomy, nomenclature 7969

Ficus magnolioides, taxonomy, nomenclature 7969**Ficus microcarpa**

chloroplasts, composition 7970

cuttings, rooting, growing media 10686

leaves

biochemistry

light 2500

temperature 10689

development, temperature 10689

Ficus pumila

cuttings, rooting, growing media 10685

plant, canopy, temperature 725

protected cultivation, shading 725

Ficus religiosa, electrical properties, measurement 8848**Ficus retusa**

buds, biochemistry, seasonal variation

9274

cuttings, rooting, growing media 10685

shoots, biochemistry, seasonal variation

9274

Ficus rubiginosa, pollination, pollinators,*Pleistodontes froggati* 8877**Ficus sarmentosa**, fruits, composition 10202**Ficus subcincta**, fruits, composition 10202**Figs**

buds, composition 5647

cooling, models 1255

cultivars

clones 8343

composition 8345

fruiting 6610

identification 5647

pest resistance 1892

cultural methods, containers 2942

disease control, USA 9273

fertilizers 1142, 9272

magnesium 170

nitrogen 2943

potassium 170

fruits

abscission, physiology 5577

characteristics 6610

development

assessment 4820-4821

biochemistry 9275

parthenocarp 9276

mechanical properties, storage 171

quality

fertilizers 9272

Figs cont.

- fruits cont.
 - quality cont.
 - storage 171
 - ripening
 - biochemistry 8345
 - physiology 5577
- growing media, regeneration 2942
- in vitro* culture
 - organogenesis 2941
 - propagation, micropropagation 169, 1141
- leaves
 - biochemistry, plant growth regulators 2944
 - composition 5647
 - morphology 8343
- manures 1142
- nutritive value 3828
- pest control
 - Metcalfa pruinosa* 4694
 - USA 9273
- photosynthesis, biochemistry 6609
- plant nutrition, boron 7445
- plant training, systems 2942
- pollination, compatibility 3827
- pruning, responses 1142, 6608
- salinity
 - responses 3826
 - tolerance 2944
- scoring, responses 1142
- stomata, frequency 8343
- storage
 - systems
 - cold storage 4821
 - controlled atmosphere storage 171, 7526

Fiji, lawns and turf, ecology 2418

Filberts (see Hazelnuts)

Filipendula vulgaris

- flowers, fragrance, determination 10606
- pollen, composition 10606

Filippia oleae, olives 5427

Finland

- Dactylorhiza incarnata*, ecology 4375
- Dactylorhiza maculata*, ecology 4375
- Rubus arcticus*, cultivars 5707

Flammulina velutipes

- composition 4271
- fructification 562
- geotropism 8728
- growing media, composition 1502
- mycelium, growth 562
- storage, packing 10590

Flaveria bidentis, photosynthesis, biochemistry 9853

Flaveria chloraefolia, leaves, composition 8031

Flaveria trinervia, photosynthesis, biochemistry 4258, 9853

Flavonoids

- characterization
 - apples 8303
 - Phytolacca americana* 8897
 - satsumas 5394
- composition
 - Chamomilla recutita* 8026
 - Citrus* 4526
 - Daphne odora* 9799
 - Flaveria chloraefolia* 8031
 - fruit crops 2815
 - grapes 309
 - jackfruits 1776
 - Jovibarba heuffelii* 4359
 - Meconopsis* 7878
 - olives 9911
 - onions 6761
 - peas 2260
 - Physalis ixocarpa* 875
 - Rhizophoraceae 1694
 - Scutellaria comosa* 5307
 - Sedum* 4359
 - Sempervivum* 4359
 - strawberries 252
 - tangelos 2618
 - tea 964, 6462
 - Vaccinium corymbosum* 8421
- metabolism
 - biochemistry
 - apples 1112
 - Citrus meyeri* 3602

Flavonoids cont.

- metabolism cont.
 - biochemistry cont.
 - lemons 3602
 - climate, tea 9090
 - disorders, apples 8314
 - in vitro* culture
 - tea 10016
 - Vaccinium macrocarpon* 3930
 - plant growth regulators
 - Hibiscus sabdariffa* 6297
 - tangelos 2618
 - ripening
 - apples 9202
 - grapes 304, 7637
 - seasonal variation, *Chamomilla recutita* 7162
 - storage
 - apples 8314
 - onions 4047
 - responses, temperate fruits 10089
 - taxonomy
 - Arnica amplexicaulis* 5333
 - Arnica lanceolata* 5333
 - Teucrium* 10802

Flavour compounds, production, *in vitro*

culture, plants, reviews 7129

Flooding

- responses
 - Capsicum* 6901
 - carambolas 11021
 - tomatoes 5111-5112
- tolerance
 - Citrus* 5366
 - Luffa aegyptiaca* 9515
 - Momordica charantia* 10465
 - Pyrus* 8360

Flowers (see also Cut flowers)

- abscission
 - biochemistry, tomatoes 1464
 - cultivars, roses 2488
 - physiology
 - Lantana camara* 10737
 - Lilium* 8790
 - roses 2488
 - plant growth regulators, *Begonia hiemalis* 7431
- biochemistry
 - assessment, *Ipomoea tricolor* 8758
 - cultural methods, *Capsicum* 10530
 - development, satsumas 10861
 - genetics, tomatoes 1474
 - light, *Dendrobium* 3460
 - plant nutrition
 - peaches 5659
 - pears 5659
 - pollination, *Phalaenopsis* 704, 10713
 - seasonal variation, *Chamomilla recutita* 7162
 - temperature
 - Dendrobium* 3460
 - Vaccinium ashei* 8418
 - Vaccinium corymbosum* 8418
- colour
 - assessment, *Carthamus tinctorius* 8000
 - biochemistry
 - Ajuga reptans* 7002
 - Alcea rosea* 8894
 - Bletilla striata* 1597
 - Cattleya walkeriana* 4381
 - Consolida armeniaca* 6110
 - Eichhornia crassipes* 4300
 - Eustoma grandiflorum* 8773
 - Evolvulus pilosus* 4300
 - Gentiana* 1551
 - Helichrysum bracteatum* 8774
 - hyacinths 638-639, 6127, 7893
 - Laelia pumila* 4381
 - Laeliocattleya* 4381
 - Matthiola incana* 6115
 - Meconopsis* 7878
 - Narcissus pseudonarcissus* 4329
 - Pharbitis nil* 6101
 - Pharbitis purpurea* 1544
 - plants 53
 - Ranunculus asiaticus* 8796
 - Verbena hybrida* 1558
 - genetic variance, *Brachystelma discoideum* 5230
 - grafting, *Camellia* 710

Flowers cont.

- colour cont.
 - light, *Eustoma grandiflorum* 9685
 - plant growth regulators, chrysanthemums 4285
 - ultrastructure
 - Hypericum calycinum* 3506
 - Hypericum perforatum* 3506
 - variation, *Hermodactylus tuberosus* 8793
- covers, pest control, *Alpinia purpurata* 653
- development
 - altitude
 - Cymbidium* 6170
 - Syringa vulgaris* 718
- anatomy
 - Anthurium andraeanum* 7870
 - Camellia japonica* 7076
 - Centranthus ruber* 7975
 - chestnuts 1138
 - Eremurus altaicus* 6134
 - Iberis amara* 10787
 - Lonicera periclymenum* 7975
 - Symphoricarpos albus* 7975
 - walnuts 2987
- application methods, *Lantana camara* 6228
- assessment
 - Allium* 7023
 - Allium neapolitanum* 5203
 - apples 4741, 5620
 - apricots 9261
 - bamboos 4262
 - bananas 5460
 - Banksia baxteri* 1639
 - Banksia hookeriana* 1639
 - cashews 3653
 - cherimoyas 7264
 - mangoes 7330, 10961
 - Miltonia* 9761
 - Opuntia ficus-indica* 9922
 - passion fruits 5433
 - plums 7550
 - Polianthes tuberosa* 10662
 - pomegranates 3632, 10899
 - Rhododendron* 2483
- biochemistry
 - Boronia megastigma* 2527
 - Chamelaucaium uncinatum* 10730
 - Gardenia jasminoides* 10756
 - Petunia* 608
 - Pharbitis nil* 4288
 - strawberries 254
 - walnuts 8391
- climate
 - apples 10135
 - loquats 10879
 - Rhododendron* 6194
- cultivars
 - apricots 7516, 9247-9249, 9252
 - dates 10869
 - Lilium* 4328
 - Lilium longiflorum* 1566
 - olives 8103
 - pecans 9315
 - plums 4859, 7550
 - Rhododendron obtusum* 1630
- cultural methods
 - Freesia* 1562
 - Gypsophila elegans* 5185
 - Lilium japonicum* 648
 - Nerine bowdenii* 4330
 - onions 10389
 - Opuntia ficus-indica* 6367
 - pineapples 9996
 - roses 725
 - satsumas 8962
- fertilizers
 - Gerbera* 4286
 - ornamental woody plants 7072
 - Viola odorata* 9837
- histology
 - grapes 3988
 - Hibiscus syriacus* 735
- in vitro* culture
 - cauliflowers 8545
 - hyacinths 2402
 - kumquats 6315
- irrigation
 - Chamelaucaium uncinatum* 2494

Flowers cont.

development cont.

irrigation cont.

- Lemaireocereus queretaroensis*
2666
ornamental woody plants 7072
pomegranates 4563

light

- Achillea millefolium* 9677
Gladiolus 635
Opuntia ficus-indica 6367
Ziziphus mauritiana 7370

models

- grapes 6717
Lilium longiflorum 6129, 9704
roses 6205
Syringa vulgaris 718

morphology

- Chrysanthemum coronarium* 4998
Dahlia pinnata 4320
guavas 4618
Hibiscus syriacus 6225

mulching, melons 6412

mycorrhizas

- Tagetes erecta* 7013, 10634
Zinnia elegans 7013, 10634

phenology

- carobs 7194
Orchidaceae 7926
pears 7538
pecans 9315
pistachios 9316

photoperiod

- Boehmeria nivea* 2571
Camellia 3474
carrots 7838, 10579
celeriac 1491
Celosia argentea var. *plumosa*
1550
Eustoma grandiflorum 4299
Gypsophila elegans 5185
Ixodia achillaeoides 7112
Kalanchoe marmorata 683
Miltonia 9761
Opuntia ficus-indica 6367
Pharbitis nil 1543, 3397, 4288
Pieris japonica 7979
Senecio hybridus 3420
strawberries 3946

physiology

- apples 9165
cherimoyas 8998
chicory 10407
Magnolia biondii 8925
peaches 9165
pears 9165
roses, reviews 2487
small fruits 7389
temperate fruits 7389

plant growth regulators

- carrots 7838
Citrus tamurana 10852
cucumbers 7742
Cyclamen persicum 3428
Dahlia pinnata 8785
Dendrobium 10705
Freesia 1562
Gladiolus 8788
Kalanchoe marmorata 683
Kalmia latifolia 7091
Lantana camara 6228
Lilium speciosum var. *rubrum*
7899
Limonium sinuatum 10631
mangoes 1831, 9975
olives 3624, 7249
oranges 7211
ornamental plants, reviews 4279
peaches 6624, 8353
pears 10238
Pieris japonica 7979
pineapples 9996
Plumeria rubra 7981
Rhododendron 7091
Spathiphyllum patinii 1596
Tanacetum cinerariifolium 7153
tulips 651
Viola odorata 9838
plant training
cherries 3817
grapes 270

Flowers cont.

development cont.

planting

- Lilium longiflorum* 5198
melons 6412

propagation

- roses 3492
strawberries 3937, 4886

pruning

- apples 99
Liichi 5420
mangoes 9975
roses 7096

ringing, *Boehmeria nivea* 2571

rootstock scion relationships,

kiwifruits 2995

salinity, *Gaillardia pulchella* 7007

seasonal variation

- apricots 3811
Chrysanthemum coronarium 4998

seasons

- Actinidia eriantha* 3913
almonds 1061
Lemaireocereus queretaroensis
2666

sex, pistachios 9316

shade

- Rhododendron obtusum* 1630
strawberries 3946

soil management, *Vaccinium ashei*

3926

sowing date

- Gypsophila elegans* 5185
tomatoes 3256

spacing, *Boehmeria nivea* 2571

temperature

- Achillea millefolium* 9677
Allium neapolitanum 5203
apricots 9246
Camellia 3474
carrots 10579
chicory 4981
Eustoma 612
Eustoma grandiflorum 4299
grapes 6717
Gypsophila elegans 5185
Ixodia achillaeoides 7112
kiwifruits 216-217
Lilium 4328
Lilium longiflorum 9704
Lilium speciosum var. *rubrum*
7899
Liichi 2635
mangoes 4628, 9056
melons 6419
olives 5429
Opuntia ficus-indica 6367
Ornithogalum arabicum 3439
pears 6631
Pieris japonica 7979
plums 4859
satsumas 836, 5391
Senecio hybridus 3420
strawberries 3946
tomatoes 7821
tulips 651
water stress
clementines 9882
passion fruits 7252
wind, *Citrus* 5371

drop

- defoliation, *Capsicum* 10530
environment, pears 8370
oxygen, *Lantana camara* 10737

physiology

- apricots 9255
Capsicum 10530
pears 8370

plant growth regulators

- Lantana camara* 10737
sapidillas 10003

shade

- Capsicum* 10530
grapes 6696

temperature, *Syzygium samarangense*

7382

fragrance

biochemistry

- Brugmansia candida* 10729
Calanthe izu-insularis 10698
Calanthe sieboldii 10698

Flowers cont.

fragrance cont.

biochemistry cont.

- essential oil plants 10756
ornamental plants 10608

determination

- Filipendula vulgaris* 10606
Lupinus polyphyllus 10606
Papaver rhoeas 10606

initiation

assessment

- Allium* 7023
Banksia baxteri 1639
Banksia hookeriana 1639
kiwifruits 4870
Lilium 7898

biochemistry

- Asparagus* 458
Pharbitis nil 9669
Polianthes tuberosa 4336
Rudbeckia hirta 7882
strawberries 254

cultivars

- dates 10869
Pyrus pyrifolia 2970

cultural methods

- apples 4784
Opuntia ficus-indica 5447
peaches 3875
strawberries 5735

defoliation, apples 2909

forcing, chicory 3123

harvesting date, satsumas 10854

histology, *Liichi* 7233

in vitro culture

- Citrus latifolia* 7212
cucumbers 3188
hyacinths 2403
Phalaenopsis 4383

latitude, *Pimelea ferruginea* 7980

light

- Clivia miniata* 7027
Corchorus olitorius 6056
strawberries 1205

models, kiwifruits 8398

morphology, *Chrysanthemum coronarium* 4998

mycorrhizas

- Tagetes erecta* 10634
Zinnia elegans 10634

photoperiod

- Clerodendrum thomsoniae* 10732
Coreopsis grandiflora 9683
Coreopsis lanceolata 9683
Leucanthemum superbum 9683
Leucanthemum vulgare 4308
Pharbitis nil 1542
Senecio hybridus 3420
strawberries 6677

physiology

- apples 86, 1106
cucumbers 10479
Pyrus pyrifolia 2970
satsumas 3604
temperate fruits 71

plant growth regulators

- apples 1104, 1106, 2909, 4784
apricots 9236
Asparagus 6881
Citrus latifolia 10853
globe artichokes 4067
grapes 299
hyacinths 2403
loquats 8978
Malus hupehensis 1105
mandarins 4520
mangoes 1830, 9978, 10959
Opuntia ficus-indica 5447
oranges 9893
peaches 3860
Pharbitis nil 9670
pineapples 2736, 8161
satsumas 835, 10854
temperate fruits, reviews 1924

plant nutrition

- Cymbidium sinense* 5256
mandarins 8960
mangoes 1830

plant training, *Pyrus pyrifolia* 2970

pruning

- cherries 10191

Flowers *cont.*initiation *cont.*pruning *cont.**Litchi* 9900*Opuntia ficus-indica* 5447ringing, *Litchi* 7235seasonal variation, *Chrysanthemum**coronarium* 4998

seasons, almonds 1061

temperature

Allium unifolium 10653

apples 10142

Clivia miniata 7027*Coreopsis grandiflora* 9683*Coreopsis lanceolata* 9683*Delphinium* 5182*Dendrobium nobile* 8840*Freesia* 8786

globe artichokes 4067

Leucanthemum superbum 9683*Leucanthemum vulgare* 4308*Litchi* 857

mangoes 857

Pharbitis nil 9669*Pimelea ferruginea* 7980*Senecio hybridus* 3420

strawberries 6677

injuries, temperature, apricots 9235

quality

assessment, *Lilium longiflorum* 3435fertilizers, ornamental woody plants
7072irrigation, ornamental woody plants
7072

sex

assessment

Eurya japonica 733*Litchi* 1750, 2634

cultivars

cashews 7283, 10914

Cucurbita moschata 10461

mangoes 10960

photoperiod, watermelons 912

plant growth regulators

Cucurbita pepo 4154*Luffa acutangula* 3189

mangoes 8151

melons 6420

Momordica charantia 3189

pawpaws 2732

plant nutrition

cucumbers 6816

pawpaws 1841

pollination, *Litchi* 4543

temperature

cashews 7283

watermelons 912

thinning, mangoes 10960

water stress, mangoes 8151

size

cultural methods, chrysanthemums
9662light, *Dendrobium* 3460

planting, globe artichokes 4066

temperature, *Dendrobium* 3460

thinning

cultural methods, peaches 3875, 7530

plant growth regulators

apples 127-128, 1107-1108, 7490,
10131

apricots 9253

peaches 2005

pears 10131

stone fruits 8235

responses

apples 1068, 8304

Castanea 8340

guavas 10946

Lilium 9706

olives 7249

peaches 10213

pears 10239

strawberries 240

tangors 5397

temperate fruits 71

surfactants, peaches 5664, 8235

Fluorine

composition

tea 7354

vegetables 9439

determination, tea 960

Fluorine *cont.*

responses, peas 10503

toxicity, mangoes 3677

Foams, utilization, mulches, *Capsicum* 7774**Foeniculum** (see also Fennel)**Fogging**

responses

Chinese cabbages 6785

lawns and turf 7033

Foliage plants (see Ornamental foliage
plants)**Forcing** (see also Protected cultivation)*Asparagus* 4182, 5061, 5989

chicory 3123, 4068, 7682

grapes 8484

guavas 10944-10945

kiwifruits 217

ornamental bulbs, books 10038

ornamental herbaceous plants 595

Pieris japonica 7979*Rhododendron obtusum* 1630

satsumas 823

strawberries 253, 1206

tulips 7900

Forecasting

diseases

apples 5610

Botrytis cinerea

grapes 8469

kiwifruits 9340

Bremia lactucae, lettuces 366*Cercospora carotae*, carrots 8706*Colletotrichum acutatum*, oranges
10845*Erwinia amylovora*, apples 3786*Phoma asparagi*, *Asparagus* 8619*Plasmopara viticola*, grapes 1242,
8469*Uncinula necator*, grapes 8469*Venturia inaequalis*, apples 111-113,
4775, 8288-8290

disorders, scald, apples 149

flowering date

grapes 9408

melons 6419

harvesting date

apples 1116

cucumbers 5924

grapes 9408

pests

Dasychira baibarana, tea 8163*Dysaphis plantaginea*, apples 1963*Empoasca pirusuga*, tea 8164*Hoplocampa testudinea*, apples 1095*Lobesia botrana*, grapes 6711*Myllocerinus aurolineatus*, tea 8165*Panonychus ulmi*, apples 115*Pieris rapae*, cabbages 386*Plutella xylostella*, cabbages 386*Trichoplusia ni*, cabbages 386

yields

avocados 807, 5358

grapes 1233

Vaccinium 3010

vegetables 6742

Forficula auricularia

apples 2904

apricots 3753

Citrus 3753

peaches 3753

Formicidae

control, of insects, cocoa 4593

oranges 1731

Forsythia intermedia

cuttings, sources, cultural methods 9770

growing media, composition 6219

leaves

anatomy 2502

physiology 2502

photosynthesis, plant growth regulators
2502plant growth regulators, uniconazole,
responses 2501**Forsythia ovata** × **Forsythia europaea**

irrigation, systems 8873

soiless culture, growing media 8873

Forsythia suspensa, wild plants, ornamental
plants 9806**Forsythia viridissima**, taxonomy, new taxa
1646**Fortunella**

leaves, biochemistry 8937

taxonomy

chemotaxonomy 8937-8938

cytotaxonomy 4491

Fortunella crassifolia, taxonomy, chemotax-
onomy 8937**Fortunella japonica**, as rootstocks, limes
10833**Fortunella obovata**, taxonomy, chemotaxo-
nomy 8937**Fortunella polyandra**, *in vitro* culture,
somatic embryogenesis 8899**Fouquieria columnaris**, characteristics 9742**Fragaria** (see also Strawberries)**Fragaria moschata**, taxonomy, nomenclature
7579**Fragaria vesca**, taxonomy, nomenclature
7579**France**

apples

cultivars 2857, 7454, 8244

pest control 8299

rootstocks 4769, 7456-7457

apricots

cultivars 8324

rootstocks 1129

Asparagus

cultivars 6878

disease control 9545

hybrids 6878

black currants, production 225

broccoli, cultivars 5857, 9469

cherries

cultivars 4811, 8327, 9265

rootstocks 3744, 8329

Colchicum autumnale, production pos-
sibilities 5336

fruit crops, research 5586

grapes

climate 4001

cultivars 4902-4905, 5747, 6685,
10312

disease control 4917

pest control 1922, 4917

Jerusalem artichokes, cultivars 8524

kiwifruits, cultivars 9334

Lepista nuda, cultivars 6980

nectarines, cultivars 3833, 6611

peaches

cultivars 3832, 4826, 8346, 9282
economics 173*Phaseolus vulgaris*, cultivars 5926

plums

cultivars 2026

disease control 3903

pest control 3903

rootstocks 1177, 3744

strawberries, cultivars 10289

Syringa vulgaris, cultivars 9777

temperate fruits, pest control 1922

tomatoes, cultivars 9573

Tuber melanosporum

climate 2366

cultural methods 7855

walnuts, cultivars 7554

Frankia, inoculation, *Myrica rubra* 5449**Frankliniella bispinosa**, strawberries 1213**Frankliniella intonsa**, peas 3214**Frankliniella occidentalis**

apples 2903

Capsicum 2280, 4190, 4192, 8632

carnations 8747

cucumbers 2208, 5903, 6824, 8577

Dendrobium 2443*Gerbera* 7867, 8754

greenhouse crops 10068

nectarines 2002-2003, 2962, 3871-3872,
8352peaches 2002-2003, 3864, 3871-3872,
8352*Saintpaulia* 2389

strawberries 10299

Frankliniella schultzei, apples 2903**Fraxinus americana**, frost, resistance,
assessment 3469**Fraxinus excelsior**, plant, injuries, surveys
2463**Fraxinus rotundifolia**, pot plants, bonsai
5260

Freesia

- corms
 - development, histology 6122
 - sprouting, temperature 8786
 - treatment 1562
- cut flowers
 - biochemistry 9696-9697
 - leakage 9698
 - physiology 9698
 - preservatives 9698
- flowers, initiation, temperature 8786
- Freesia refracta***
 - corms, development, histology 7015
 - in vitro* culture, somatic embryogenesis 758
- Fritillaria***, bulbs, production, cultural methods 10655
- Fritillaria chitralensis***, taxonomy, nomenclature 3437
- Frost** (see also Cold; Winter hardiness)
 - injuries
 - apples 5284, 5617
 - Camellia* 714
 - cashews 4588
 - Cornus florida* 5284
 - grapes 4910, 10321
 - ground cover plants 5160
 - loquats 858
 - mangoes 4588
 - onions 5825
 - Opuntia ficus-indica* 5447
 - ornamental ferns 5160
 - ornamental plants 4274
 - peaches 5284
 - raspberries 2044
 - tea 2754
 - temperate fruits 10085
 - Vaccinium ashei* 1201
 - vegetables 4588
 - protection
 - equipment, oranges 822
 - fans, grapes 6694
 - insecticides, coffee 1804
 - materials, strawberries 3939
 - vitamins, apples 1073
 - resistance
 - assessment
 - Actinidia* 3908
 - apples 5617
 - Calluna vulgaris* 7079
 - cherries 7518, 8328
 - Erica* 7079
 - grapes 2082
 - ornamental woody plants 3469
 - Sedum* 1595
 - bacteria, raspberries 2044
 - biochemistry
 - apricots 9241
 - cabbages 10453
 - cultivars
 - apples 3764, 5601, 8261, 10100
 - apricots 2926, 8261, 9234-9235
 - Camellia* 715
 - cherries 2930, 7518
 - grapes 4910, 5744-5745, 7610, 10322
 - lawns and turf 4342, 10666
 - persimmons 4559
 - pomegranates 2659
 - Vaccinium ashei* 3923
 - Viola tricolor* 10637
 - cultural methods, *Viola tricolor* 10637
 - fertilizers, *Vaccinium corymbosum* 6664
 - models, apples 5601
 - physiology, grapes 7632
 - plant growth regulators
 - cabbages 9485
 - Citrus* 5366
 - olives 4551
 - Pittosporum eugenioides* 5290
 - plant nutrition, grapefruits 5370
 - seasonal variation
 - apricots 9241
 - Aronia melanocarpa* 9375
 - Rhododendron* 6195
 - water stress, *Rhododendron* 6195-6196
 - wind, *Citrus* 5371
 - responses, grapes 5763, 7633

Frost cont.

- tolerance, ornamental plants 6082
- Fruit crops**
 - books, China 1000
 - conferences 13, 1008-1009, 2800, 4668, 10053-10054
 - cooling
 - equipment 59
 - techniques 7438
 - cultivars
 - assessment
 - Brazil 7405
 - models 7404
 - characteristics, books 989
 - cultural methods
 - books 1870
 - economics 5553
 - Italy 6514, 8200
 - mechanization 5559
 - disease control
 - Agrobacterium tumefaciens* 2845
 - Albania 7479
 - Phytophthora*, reviews 6513
 - reviews 6513
 - disorders, yellows 1060
 - economics
 - Austria 6531
 - USA 9159
 - establishment, coastal areas 10061
 - fertilizers 2827
 - books 8181
 - boron 7418
 - nitrogen 1059, 7444
 - phosphorus 7418
 - sulfur 7418
 - fruits
 - browning, biochemistry 8228
 - composition 2815, 3738, 5580
 - development, biochemistry, reviews 4696
 - mechanical properties
 - assessment 5579
 - measurement 60, 9158
 - storage 60
 - morphology 5579
 - quality
 - assessment 62, 4708
 - conferences 9121, 10047
 - reviews 10081
 - handling 4708
 - ripening
 - biochemistry 6518
 - physiology, reviews 4698
 - plant growth regulators 2836
 - senescence, reviews 3731
 - fungicides
 - determination 1911
 - residues 1054
 - grading, techniques 5581
 - hail, injuries 4717
 - handling
 - research 10073
 - techniques 4709
 - books 10043
 - Vietnam 4700
 - harvesting
 - equipment 7436
 - techniques, mechanical harvesting 6525
 - marketing
 - Poland 1055
 - USA 4708
 - new journals 7383
 - nurseries, cultural methods 5559
 - nutritive value 1916
 - parasitic plants, *Cuscuta* 9136
 - pest control
 - Albania 7479
 - Australia 2829
 - Chile 285
 - Cicadellidae 6517
 - Germany 7422
 - insects 52
 - Italy 6514
 - Melolontha melolontha* 9164
 - Metcalfa pruinosa* 4694
 - Panonychus ulmi* 3752
 - pesticides
 - application methods 3735
 - residues 6572

Fruit crops cont.

- plant
 - composition 9152
 - development, physiology 8233
 - physiology 1914
- plant growth regulators
 - ethylene, physiology, reviews 4698
 - reviews 7409
- plant nutrition
 - books 4663
 - calcium 2824
 - iron 65, 1060
 - nitrogen 1059, 2825
 - research, reviews 1908
 - reviews 50
- plant training, systems 3719
- plant water relations, physiology 6520
- planting
 - orientation 3719
 - systems 7407
- pollution
 - free radicals 2815
 - nitrogen oxides 10065
 - ozone 2815
 - sulfur dioxide 10065
- production
 - Brazil 6488
 - Colombia 6489
 - India 6491
 - Japan 75
 - UK 28
- production possibilities
 - Gabon 5552
 - India 8199
- pruning, systems, books 9116
- quality, assessment, reviews 61
- reports
 - Australia 8189
 - Finland 6485
 - Germany 10056
 - Malawi 10059
- research
 - Belgium 1889
 - China 1914
 - equipment 9132
 - Europe 24, 5551
 - France 5586
 - Indonesia 5556
 - Japan 25
 - Russia 1022
 - subtropics 783
 - World 29
- respiration, storage 10074
- rootstocks
 - assessment, models 7404
 - selection 65
- salinity, tolerance 10061
- senescence
 - biochemistry 6518
 - reviews 10078
- shoots, cytology 2815
- sorting
 - equipment 8229
 - techniques 4709, 5581
- storage
 - biochemistry, reviews 7434
 - books 1870
 - humidity 7435
 - physiology 10074
 - conferences 4666
 - reviews 4697, 7434
 - precooling 4706
 - research 10073
 - systems
 - assessment, reviews 10077
 - books 10042
 - controlled atmosphere storage 57-58, 4703, 5578, 7433-7434
 - conferences 2799
 - modified atmosphere storage 56, 4701, 5578, 10075
 - treatment, books 10042
- surveys
 - Madagascar 4676
 - Vanuatu 10904
- transport, systems, models 10076
- water stress, responses 6520
- weed control 1035-1036, 2817, 8213-8214
- conferences 1012

Fruit crops cont.

- wild plants
 - characteristics, books 989
 - edible species 6370
 - utilization, Brazil, books 7390
- yearbooks 1001, 1876

Fruits

- abscission
 - cultural methods, grapes 302
 - physiology, horticultural crops 5577
- aroma
 - analysis, fruit crops, books 6473
- biochemistry
 - apples 9224
 - apricots 10186
 - grapes 10356
 - nectarines 3885
 - passion fruits 6363
 - peaches 3885
 - Pyrus ussuriensis* 10242
 - Spondias dulcis* 3695
 - strawberries 3023
 - tamarillos 3635
- cultivars, strawberries 4897
- harvesting date, apples 1983, 10152
- maturity, apples 10152
- storage
 - apricots 7524
 - cherries 7524
 - nectarines 7524
 - plums 7524
- biochemistry
 - altitude
 - mandarins 10837
 - oranges 10837
 - analysis, tomatoes 541
 - climate
 - grapes 10348
 - kiwifruits 3000
 - cultivars
 - Capsicum* 7779
 - grapes 9410, 10345
 - melons 6409, 10937
 - persimmons 8993
 - Rubus arcticus* 5707
 - strawberries 4883
 - Vaccinium angustifolium* 3924
 - walnuts 10260
 - cultural methods
 - bananas 9012
 - grapes 6698
 - Pyrus bretschneideri* 6633
 - development
 - olives 10887
 - pawpaws 1842
 - Prunus pseudocerasus* 164
 - satsumas 10861
 - diseases, grapes 10348
 - disorders, oil palms 2728
 - fertilizers
 - grapes 10326
 - pears 1163
 - satsumas 10841
 - handling, olives 2653
 - harvesting date
 - grapes 4000
 - melons 6409
 - hypoxia, bananas 4585
 - insecticides, dates 852
 - maturity
 - avocados 3576-3577
 - bananas 6383
 - Capsicum* 7779
 - guavas 6427
 - Vaccinium angustifolium* 3924
 - plant growth regulators
 - Capsicum* 8638
 - Citrus* 5389
 - grapefruits 1740
 - mangoes 9057
 - plums 10253
 - strawberries 8429
 - plant nutrition
 - apples 6562
 - Capsicum* 8628
 - grapes 6719
 - plant training, grapes 2086, 6703
 - pollination
 - dates 10874
 - Phalaenopsis* 704
 - position, melons 3672

Fruits cont.

- biochemistry cont.
 - ripening, grapes 10345
 - salinity
 - olives 10887
 - tomatoes 3282, 5101
 - seasonal variation
 - apricots 10181
 - grapes 3997-3998
 - kiwifruits 3000
 - melons 6409
 - size, melons 10937
 - soil management, apples 4764
 - soil types
 - kiwifruits 3000
 - melons 10937
 - staking, melons 3672
 - storage
 - apples 148, 8315
 - apricots 10183
 - blackberries 4876
 - Capsicum* 479
 - Prunus pseudocerasus* 164
 - Vaccinium angustifolium* 3924
 - temperature
 - Capsicum* 482
 - tomatoes 546
 - treatment, persimmons 8993
 - water stress
 - apples 5605
 - grapes 2096, 10326
 - satsumas 8077
- browning
 - assessment, *Litchi* 5421
 - biochemistry
 - apples 10163
 - fruit crops 8228
 - Litchi* 1758
 - Pyrus bretschneideri* 3896
 - cultivars, apples 10163
 - physiology, *Litchi* 1759
 - plant water relations, *Litchi* 1759
 - storage
 - apricots 7524
 - coconuts 9953
 - guavas 7318
 - Litchi* 1756, 1759
 - plums 7524
 - Pyrus* 3895
 - Pyrus bretschneideri* 3894, 8374
 - quinces 207
 - rambutans 10023-10024
- bruising
 - assessment
 - apples 153, 1986, 7513, 10169
 - pears 153
 - tomatoes 10574
 - handling, cherries 7522
 - harvesting, apples 6584
 - harvesting date, apples 9227
 - maturity, apples 9227
 - measurement
 - apricots 9305
 - peaches 9305
 - plant training, cultivars, apples 4770
 - seasonal variation, apples 6584
 - storage, apples 8313
 - temperature
 - apples 8313
 - cherries 7523
- colour
 - assessment
 - apples 6589
 - bananas 4586
 - grapes 303, 4003
 - nectarines 9298
 - tomatoes 6951, 9616
 - biochemistry
 - grapes 2100
 - oranges 838
 - climate, raspberries 6659
 - cultivars
 - apples 4731, 9169
 - apricots 10187
 - cashews 4590
 - dates 10870
 - grapes 2100
 - nectarines 9298
 - raspberries 6659
 - strawberries 4883

Fruits cont.

- colour cont.
 - cultural methods
 - apples 1073, 1115
 - grapes 6721
 - determination, cherries 165, 10194
 - fertilizers
 - apples 1082, 10122
 - oranges 8062
 - pears 1082, 10122
 - harvesting date, cherries 8336
 - interstocks
 - apples 10102
 - satsumas 9879
 - ionizing radiation, strawberries 3027
 - irrigation, olives 10882
 - light
 - apples 1946
 - cucumbers 5017
 - strawberries 5738
 - tomatoes 6037
 - maturity, apricots 4809
 - measurement, pears 9313
 - models, tomatoes 10567
 - mulching, apples 1951
 - mutants
 - apples 4731
 - tomatoes 10563
 - plant growth regulators
 - apples 132, 1115, 9204
 - cherries 8336
 - Citrus* 4705
 - grapefruits 10858
 - oranges 10858, 10866
 - satsumas 8076, 10866
 - stone fruits 4705
 - plant nutrition, tomatoes 10563
 - pollination, apples 10135
 - pruning
 - apples 98
 - pears 3888
 - ringing, satsumas 9886
 - ripening
 - nectarines 9298
 - pawpaws 9993
 - rootstock scion relationships, apples 85
 - shade
 - kiwifruits 219
 - peaches 9286
 - soilless culture, tomatoes 9616
 - sorting, apples 7511
 - storage
 - apples 5630, 9204
 - apricots 10183
 - avocados 4482
 - bananas 887
 - blackberries 4876
 - Capsicum* 4196
 - cucumbers 416, 5630
 - Litchi* 1755-1756
 - tomatoes 544, 9616-9617, 10566-10567
 - thinning
 - apples 10140
 - grapes 3992
 - conferences 6480
 - covers
 - responses
 - bananas 9012
 - Pyrus bretschneideri* 6633
 - cracking
 - anatomy
 - lemons 9894
 - oranges 4525
 - assessment
 - apples 4791
 - cherries 4791
 - cultivars
 - apples 4791
 - apricots 9263
 - cherries 4791
 - oranges 4525
 - tomatoes 503, 6031
 - cultural methods
 - oranges 1739
 - tangors 5397
 - tomatoes 3305
 - histology, apples 10145
 - humidity
 - Litchi* 8973

Fruits cont.

cracking cont.

humidity cont.

pummelos 1741

irrigation

Litchi 4538

tomatoes 503, 6031

physiology

atemoyas 10909

cherries 1136

lemons 10860

Litchi 4544

plant training, blackberries 3920

plant water relations

cherries 2937

Litchi 3615

protected cultivation, cherries 2938

reviews, cherries 1136

rootstock scion relationships

cherries 2938

pummelos 10859

soil management, almonds 2851

soil water, pummelos 1741

thinning, pomegranates 3632

water stress, *Litchi* 3614

degreening

cultivars, oranges 842

harvesting date, oranges 842

insecticides

grapefruits 5395

oranges 5395

plant growth regulators

Citrus 4705

oranges 842

storage, clementines 7221

development

anatomy

Asteraceae 3727

Eucommia ulmoides 2547

grapefruits 4523

apomixis, walnuts 5694

assessment

apples 10134

apricots 1988, 9261

figs 4820-4821

grapes 3734

guavas 3734

Lagenaria siceraria 5036

limes 3734

mangoes 3734

nectarines 180, 6626

Opuntia ficus-indica 9922

passion fruits 5433

pawpaws 1842

peaches 180, 2966

pistachios 7546

Prunus pseudocerasus 164

sapodillas 3734

strawberries 3022

temperate fruits 8238

Ziziphus spina-christi 3693

biochemistry

apples 1112, 4792, 5618, 5622,

8318, 9221

Azadirachta indica 4448

bananas 6383

Boronia megastigma 2527*Capsicum* 2282, 7778-7779

cucumbers 1369

dates 7231

figs 9275

fruit crops, reviews 4696

grapes 4931, 6723, 10347

guavas 918

Impatiens balsamina 615

kiwifruits 3000, 4792

Litchi 9902

loquats 858

mangoes 7335

melons 5490

olives 4552

peaches 3876, 5665

plums 9326

Rosa roxburghii 4403

satsumas 10861

strawberries 9374

Syzygium jambos 9110

tangelos 2618

tomatoes 4246, 5124, 7825, 8689,

9611

walnuts 8392

Fruits cont.

development cont.

climate

loquats 10879

Vaccinium macrocarpon 9351

cultivars

apples 1931

Cucurbita moschata 5889

guavas 918

okras 3227

peaches 2966

persimmons 2656

Vaccinium macrocarpon 9351

cultural methods

grapes 3966, 4927, 10350

guavas 10945

kiwifruits 3001

mangoes 7333

okras 6893

Opuntia ficus-indica 6367

pawpaws 5504

persimmons 9916

tomatoes 8663

diseases, okras 5991

disorders, cocoa 7284

fertilizers

dates 7231

grapes 3052, 4916

mangoes 7333

harvesting date, raspberries 1195

histology

grapes, reviews 10346

Pyrus breitschneideri 2015

in vitro culture, cauliflowers 8545

irrigation

apples 1077

Lemaireocereus queretaroensis

2666

olives 5425

peaches 6616

light, *Opuntia ficus-indica* 6367

models

apples 10143

apricots 9262

peaches 8354

Prunus 72

tomatoes 5109

mulching

avocados 797, 3566

melons 6412

mycorrhizas, satsumas 5377

parthenocarp

cucumbers 1371

figs 9276

grapes 2101, 2104, 9406

kiwifruits 2040

pears 3893, 10240

peas 4176

watermelons 2710, 8144

pest control, *Macadamia* 10880

phenology, carobs 7194

photoperiod, *Opuntia ficus-indica*

6367

physiology

black currants 1191

cucumbers 1371

durians 7375

grapefruits 4523

grapes 3066-3067, 3999

olives 7250

peas 454

strawberries 5737

reviews 3947

plant growth regulators

apples 7472

Arbutus 3906

cherries 10193

Citrus tamurana 10852

clementines 2619, 8963

grapes 10349, 10351

kiwifruits 2040

mangoes 7333

olives 3624

oranges 7211

peaches 2949, 10217, 10220

pears 10240

peas 1401, 4176

Pimenta dioica 7993

pumpkins 5488

satsumas 3608, 8963

strawberries 2068

Fruits cont.

development cont.

plant growth regulators cont.

tangelos 2618

tomatoes 4240

watermelons 2710

plant nutrition

apples 2875

tomatoes 8690

plant training, apples 2872

plant water relations, tomatoes 1472

planting, melons 6412

pollination

cherimoyas 7264, 10908

cherries 10193

mangoes 7333

pears 3893

persimmons 7254

raspberries 1195

position, coffee 5478

protected cultivation

grapes 264

satsumas 10857

ringing

avocados 3567

grapefruits 4523

loquats 4545

rootstock scion relationships, peaches

2840

salinity

figs 3826

tomatoes 4228

seasons, *Lemaireocereus queretaroensis*

2666

shade

coffee 8136, 8141

grapes 5764

kiwifruits 219

sowing date, tomatoes 3256

spacing, tomatoes 3259

temperature

apples 4782, 10142

cucumbers 3190

grapes 264, 5764

Opuntia ficus-indica 6367

peaches 10212

tomatoes 7821

thinning

grapefruits 4523

grapes 3992

peaches 6625

translocation, peaches 3878

water relations, tomatoes 3307

water stress

apples 5605

coconuts 10920

grapes 2096, 9409

peaches 6616, 8354

drop

assessment, cashews 10914

biochemistry

apples 4786

grapes 300

cultivars

dates 10869

pecans 10245

cultural methods

dates 2630

Litchi 1754

plums 8385

humidity

mandarins 10856

oranges 10856

irrigation, cashews 1792

light

mandarins 10856

oranges 10856

physiology

apples 2912

apricots 9255

Litchi 1754

olives 864

Ziziphus sativa 7371

plant growth regulators

apples 131-132, 10138

Capsicum 9682*Citrus* 5389

clementines 8075

kiwifruits 2040

mandarins 8075

mangoes 7334, 9057, 10966

Fruits cont.
 drop cont.
 pollination
 apples 3797, 9309
 Litchi 1752
 pears 9309
 ringing, *Litchi* 7235
 shade, kiwifruits 219
 spacing, *Ziziphus mauritiana* 11015
 temperature
 apples 9309
 mandarins 10856
 oranges 10856
 pears 9309
 satsumas 3605
 Syzygium samarangense 7382
 thinning, mangoes 10968
 wind, *Citrus* 5372
 flavour
 analysis, fruit crops, books 6473
 assessment
 apples 2923
 cocoa 2685
 biochemistry
 fruit crops, books 4670
 passion fruits 3627
 persimmons 8993
 tomatoes 4250
 cultivars
 apples 4797
 pears 4843
 cultural methods
 peaches 173
 strawberries 6674
 tomatoes 4253
 gamma radiation, grapefruits 4530
 genetics, *Citrus* 4526
 handling, persimmons 9917
 harvesting date, apples 10152
 ionizing radiation, strawberries 3027
 maturity
 apples 10152
 bananas 10912
 rootstock scion relationships, pears 4843
 salinity, cucumbers 400
 storage
 apples 4797, 9216
 apricots 7524
 bananas 10912
 cherries 7524
 grapefruits 5402
 mangoes 7338
 nectarines 7524
 oranges 5402
 plums 7524
 satsumas 5406
 initiation
 pruning
 cherries 10191
 Opuntia 10902
 injuries
 cultural methods
 apples 1073
 olives 5431
 pollution, apples 3776
 transport, apples 10165
 loosening, cultural methods, olives 5431
 maturity
 assessment
 apples 6585, 9158, 9205, 9208, 9211
 apricots 4809, 10181
 avocados 3576-3577, 4480
 cherries 165, 10194
 Cucurbita maxima 5037
 grapes 306
 Lagenaria siceraria 5036
 mangoes 7337
 melons 7315
 nectarines 3880-3881, 4838
 peaches 3881, 4838, 5667-5668, 7531, 10225
 pears 2973, 9158, 9311
 persimmons 869
 watermelons 6421
 cultivars, apples 9205
 cultural methods
 apples 5677
 avocados 801
 strawberries 6674

Fruits cont.
 maturity cont.
 cultural methods cont.
 tomatoes 6913
 harvesting date, peaches 5667
 plant growth regulators, peaches 8353
 spacing, oranges 821
 mechanical properties
 assessment
 Citrus 6344
 cucumbers 6841
 fruit crops 5579
 Hippophae rhamnoides 5741
 pecans 4848
 stone fruits 5579
 strawberries 5740
 tomatoes 4245, 8696, 9616, 10573
 walnuts 7557
 biochemistry, cherries 7520
 cultivars
 apples 4797, 6592-6593
 apricots 2925
 dates 10870
 strawberries 4883
 tomatoes 8650
 diurnal variation, apples 9226
 gamma radiation, pawpaws 9064
 histology, tomatoes 8697
 ionizing radiation, strawberries 3027
 measurement
 apples 6590, 6592, 7514, 9226
 cherries 6603
 Citrus 4534
 Cucurbita maxima 5037
 fruit crops 60, 9158
 kiwifruits 6646, 10276
 nectarines 3880
 pecans 4848
 persimmons 5438
 pumpkins 3158
 tomatoes 6040, 6950, 8698, 9226
 watermelons 3673
 models
 apples 10148
 pears 10148
 watermelons 3673
 plant growth regulators
 apricots 9253
 cherries 8336
 Vaccinium ashei 239
 plant nutrition
 cherries 4817
 kiwifruits 3917
 Vaccinium ashei 239
 plant water relations, tomatoes 9226
 pruning, apples 98
 ripening
 bananas 6381
 nectarines 6626
 tomatoes 6041, 8650, 8698
 rootstock scion relationships, apples 82
 seasonal variation, apricots 10181
 seed treatment, tomatoes 9575
 soilless culture, tomatoes 9226, 9616
 storage
 apples 4797, 4799, 6592-6593, 10148, 10155
 apricots 10183-10184
 avocados 816, 4482
 bananas 3652
 figs 171
 fruit crops 60
 kiwifruits 10276
 pears 8373, 10148
 strawberries 5740, 9373
 tomatoes 6040-6041, 9616-9617, 10566
 moisture content, avocados 3576, 4480
 pesticides, residues 2833
 physical properties
 fertilizers, tomatoes 4225
 measurement, peaches 5668
 storage, peaches 5670
 position
 assessment
 cherries 8337
 kiwifruits 8399
 responses, strawberries 2061-2062

Fruits cont.
 quality
 altitude
 grapes 9387
 olives 9909
 analysis
 apricots 2929
 tomatoes 543
 assessment
 apples 1981, 1984, 2923, 6590, 7473, 7512, 7514, 8318, 9225, 10167, 10169
 aubergines 7439
 Capsicum 469
 cherries 9270, 10264
 Citrus 10868
 coconuts 7439
 cucumbers 2222
 fruit crops 62, 4708
 conferences 9121, 10047
 reviews 10081
 melons 2711
 nectarines 9304
 olives 4553
 pawpaws 7439
 peaches 9304, 10225
 persimmons 869
 pineapples 9997
 Pyrus pyrifolia 1169
 strawberries 3933, 4898, 10264, 10302
 tomatoes 6948, 6950, 10566
 Vaccinium corymbosum 10264
 vegetables 62
 Vitis 2098
 watermelons 2712
 biochemistry
 grapes 8489
 lemons 4522
 climate
 apples 4760
 satsumas 5391
 colour, apples 4804
 covers, pomegranates 6366
 cultivars
 Annona muricata 7262
 apples 1984, 8310, 8321, 9220, 10096
 apricots 2925, 9264
 Capsicum 5992
 cashews 4590
 cherries 5637, 6597
 cucumbers 7727
 Cucurbita maxima 3193
 dates 10870-10871
 grapes 4904, 9411
 guavas 7316
 Litchi 853, 8088
 mandarins 10824
 mangoes 3675, 5494, 9974
 melons 7314
 okras 463, 3227-3228
 Opuntia 10901
 peaches 10223
 pears 10226
 pecans 197
 persimmons 2656, 10893
 plums 3905
 pomegranates 5441
 Pyrus 5671
 strawberries 3932, 3935-3936, 4882-4883, 9356
 tomatoes 498, 545, 1427, 6031, 9580, 10537
 Vaccinium 4879
 Vaccinium ashei 3923
 Ziziphus mauritiana 11020
 cultural methods
 apples 1068, 1115, 8301, 8304, 10117
 apricots 9243
 avocados 3574
 bananas 4584, 9933
 Capsicum 8625
 dates 2630
 fruit crops 28
 grapes 1254, 6698, 6721, 10355
 guavas 10946
 kiwifruits 224
 Litchi 855
 mandarins 5384

Fruits cont.

quality cont.

cultural methods cont.

- Momordica charantia* 404
- ortaniques 5404
- peaches 10204, 10218
- pears 5677-5678, 8301, 10241
- pineapples 9996
- plums 8385
- Pyrus pyrifolia* 190
- strawberries 240
- tomatoes 4253, 6921, 9586

defoliation

- grapes 3991, 3994
- tomatoes 497
- Vitis* 2098

disorders, mangosteens 6466

drying, persimmons 3628

fertilizers

- apples 1954, 2884, 7477, 8283, 10120, 10166
- blackberries 10278
- Capsicum* 4186, 5076
- carambolas 9104
- cashews 9940
- cherries 3818
- cucumbers 4137-4138
- Cucurbita moschata* 3169
- Cucurbita pepo* 10490
- figs 9272
- grapes 267, 1238, 3050, 3052, 10331
- guavas 5493, 6426
- lemons 7204
- mandarins 5381
- mangoes 1828, 9979, 10955
- okras 3228
- oranges 5380
- pawpaws 7345
- peaches 8347
- pears 1163
- Phaseolus vulgaris* 10490
- satsumas 8945
- tomatoes 9595
- Ziziphus sativa* 11016

flowering, almonds 3756

gamma radiation, grapefruits 4530

growing media, tomatoes 8666

hail, bananas 9933

handling

- fruit crops 4708
- ortaniques 5404
- peaches 10221

harvesting

- Macadamia* 6354
- tomatoes 542

harvesting date

- apples 7497, 9220, 10146
- Capsicum* 9567
- cherries 6602, 8336
- Cucurbita maxima* 3192
- Cucurbita moschata* 3192
- mandarins 6341
- peaches 182
- pears 10146
- pecans 200
- Phaseolus vulgaris* 1375
- pomegranates 2662
- strawberries 3024-3025
- tangelos 6341

herbicides, oranges 6325

insecticides

- grapefruits 5395
- oranges 5395, 5408
- interstocks, satsumas 9879

irrigation

- apples 6552, 7497, 8270, 10114
- avocados 795
- grapes 266
- nectarines 4832
- olives 10882
- oranges 7202
- peaches 8347
- pears 10232
- pineapples 5505
- pomegranates 4562
- Pyrus pyrifolia* 5676
- tomatoes 504, 6031

light

- apples 1946, 7465
- grapes 3971

Fruits cont.

quality cont.

light cont.

- kiwifruits 211
- tomatoes 3310

maturity

- Cucurbita maxima* 3192
- Cucurbita moschata* 3192
- guavas 6426
- nectarines 9304
- olives 9909
- peaches 9300, 9304

measurement

- apples 8320
- fruit crops 9157
- strawberries 3950

models

- grapes 6692
- Macadamia* 6354
- peaches 8398

mulching

- avocados 4483
- melons 6412
- tomatoes 504

mutants, grapes 300

mycorrhizas, satsumas 5377

physiology, apples 1985

plant growth regulators

- apples 1104, 1107, 1115
- cashews 9940
- cherries 8336
- Citrus* 4705
- clementines 6343
- dates 5415
- grapefruits 10858
- grapes 272, 2102, 7636, 8487, 10347
- kiwifruits 6645
- loquats 7239
- Luffa acutangula* 3189
- mandarins 4519, 5393
- melons 6420
- Momordica charantia* 3189
- oranges 2621, 10858, 10866
- peaches 2006, 6624
- persimmons 2657
- pineapples 9996
- pomegranates 1767
- Pyrus pyrifolia* 190
- satsumas 10866
- tomatoes 1467, 9610, 10562
- watermelons 2705, 2710

plant nutrition

- apples 2875, 2922
- cherries 4817
- grapes 3049
- mangoes 10953, 10955
- oranges 10843
- pears 188
- plums 4856
- raspberries 6658
- satsumas 4507
- strawberries 10296
- Vaccinium ashei* 2051

plant training

- apples 2871
- cultivars, apples 4770
- figs 2942
- grapes 3971, 3973, 6703

planting, melons 6412

pollen, pummelos 10855

pollination

- apples 4790, 9199, 10135
- cherimoyas 7264
- clementines 5392
- dates 7232
- melons 5487
- oranges 5392
- strawberries 255

position

- apples 9203
- carambolas 2773
- kiwifruits 211, 8399
- melons 3672

propagation, tomatoes 10542

protected cultivation

- strawberries 1208
- tomatoes 498

pruning

- apples 98-99, 3781, 6556
- figs 6608

Fruits cont.

quality cont.

pruning cont.

- grapes 3970
- guavas 2716
- kiwifruits 2039
- Liichi* 853
- plums 1178
- pomegranates 873
- tomatoes 3268

rain, cherries 5637

ringing

- grapes 4913
- Liichi* 7235
- loquats 4545
- satsumas 9886

ripening

- apples 9220
- peaches 182
- tomatoes 537
- rootstock scion relationships
- apples 85, 4743, 4752, 4805
- avocados 789
- Citrus*, reviews 4498
- Citrus hassaku* 5367
- grapes 261, 300, 2079, 3032, 3954, 6686, 7602, 7604
- mandarins 10831
- oranges 2590, 3584, 10830
- temperate fruits, reviews 4498
- tomatoes 8655

salinity

- bananas 8121
- tomatoes 4228, 8675

scoring, pummelos 2593

seed treatment, pawpaws 927

shade

- grapes 3991
- kiwifruits 211, 219
- peaches 9286
- tomatoes 9580

shading

- kiwifruits 2039
- tomatoes 537

size

- apples 2921, 4804
- clementines 5392
- soil amendments, pawpaws 5503
- soil management
- apples 3778
- grapes 267, 3967
- tomatoes 8660

soilless culture

- melons 908, 3666, 5485
- tomatoes 8666

sowing, melons 2700

spacing

- Cucurbita moschata* 3169
- okras 3228
- oranges 821
- Phaseolus vulgaris* 1375
- tomatoes 3260, 3310
- Ziziphus mauritiana* 11015

staking, melons 3672

standards, avocados 2585

storage

- apples 140, 2918, 4794, 8310, 8321, 9220, 10157
- apricots 160
- avocados 812, 5359
- cherries 5641
- Cucurbita maxima* 3192-3193
- Cucurbita moschata* 3192
- dates 5416
- figs 171
- grapes 8489
- kiwifruits 8401
- mandarins 841, 8968
- mangoes 924, 1834
- nectarines 184
- olives 7251
- oranges 1742, 8968
- ortaniques 5404
- peaches 182, 10221
- pears 193
- pomegranates 2662
- Pyrus bretschneideri* 3898
- satsumas 5406, 8967, 9895
- strawberries 257, 4895, 9373
- tomatoes 543, 7831, 9615
- Vaccinium* 4879

Fruits cont.

quality cont.

storage cont.

- Ziziphus sativa* 9615
- temperature, strawberries 3946
- thinning
 - apples 9200
 - grapes 301, 3991-3992, 9407
 - mangoes 10969
 - pears 10239
 - plums 7551
 - pomegranates 3633
- training, grapes 269
- transport, avocados 4487
- water stress, tomatoes 502, 3260, 3267-3268, 3310
- wind, *Citrus* 5371

ripening

- alcohols, tomatoes 5129

assessment

- bananas 8127
- grapes 303
- nectarines 6626
- tomatoes 10574

biochemistry

- apples 139, 142-143, 4788, 4792, 7501, 9201-9202
- apricots 10186
- bananas 2679, 4585, 5575, 6381-6382, 7275, 8124, 8126
- blackberries 4875
- Capsicum* 480-481, 2282, 5080-5081, 7823, 8636-8637, 10531
- cherimoyas 8109
- Citrus junos* 10864
- durians 2775
- figs 8345, 9275
- fruit crops 6518
- grapes 304, 310, 2099, 3065, 3995, 7637
- guavas 918
- kiwifruits 218, 222, 540, 2998, 3915, 4792, 10274-10275
- mandarins 840, 7217
- mangoes 923, 1832, 1835, 4632, 7335, 7339, 9981
- melons 4614, 5489-5490, 9968-9969, 10936
- nectarines 2007, 3882
- olives 4552, 9909
- oranges 838, 3606, 5396
- pawpaws 931, 2733
- peaches 179, 3879, 3882
- persimmons 5436, 9919
- plums 9326
- Pyrus pyrifolia* 2016, 7539
- Pyrus ussuriensis* 10242
- strawberries 3948, 10302
- tomatoes 536, 538, 540, 1468, 2314, 3304, 3306, 3308, 4246-4248, 4250, 5128, 5575, 6032, 6943-6945, 7822-7824, 7826, 8691, 9612, 10565, 10569-10571

- carbon dioxide, tomatoes 7826

- climate, grapes 9408

cultivars

- apples 3759, 9202
- bananas 5454, 7275
- grapes 304, 7638
- guavas 918, 9970
- mangoes 9982, 10974
- melons 9047
- nectarines 9298
- tomatoes 4247, 8650, 9612, 10568

- cultural methods, grapes 302, 1254

- fertilizers, tomatoes 9597

- gamma radiation, pawpaws 9064

harvesting date

- apples 10152
- avocados 2583
- guavas 9970

- in vitro* culture, tomatoes 7827

- light, tomatoes 6037

maturity

- apples 10152
- peaches 9300

- mulching, apples 1951

- mutants, tomatoes 10563

Fruits cont.

ripening cont.

- pests, tomatoes 1476

physiology

- apples 133-134, 4707
- atemoyas 10909
- avocados 813-814, 4707
- bananas 8124
- fruit crops, reviews 4698
- grapes 305
- Hippophae rhamnoides* 5741
- horticultural crops 5577
- kiwifruits 2041
- mangoes 9058
- melons 9047
- oranges 4707
- passion fruits 4556, 8990
- peaches 3877, 9299-9300
- Rubus* 230
- Solanum pseudocapsicum* 10744
- tomatoes 539, 2313, 2317, 5129, 5131, 6942, 10568, 10572

plant growth regulators

- apples 132, 9204
- bananas 5575, 6382, 7276-7277, 7428, 7431
- Capsicum* 9682
- dates 5415
- fruit crops 2836
- grapes 272, 2102, 8487
- kiwifruits 220, 2999
- mandarins 7217
- mangoes 9982
- pears 4842, 5679
- persimmons 5437, 9919
- sapodillas 9085
- strawberries 258, 2068
- tomatoes 539, 5575, 6032, 6037, 7428, 7431, 7827, 10570

- plant nutrition, tomatoes 1473, 10563

- rain, grapes 7638

- ringing, grapes 4913

rootstock scion relationships

- apples 82, 4743
- grapes 3032, 3954, 7602, 7604

storage

- apples 9204, 10154, 10158
- apricots 7524
- avocados 810, 815-816, 2583, 4483, 5359, 8936
- bananas 887, 3652, 5462, 6384, 7276, 8502
- cherimoyas 8109
- cherries 7524
- cucumbers 8502
- durians 972
- guavas 2718
- kiwifruits 2042, 2999, 8401
- mangoes 924, 1833, 4633, 5496, 7339, 10974
- melons 9047
- nectarines 7524
- pawpaws 9994
- pears 2017, 4842, 4844, 8371-8372, 9313
- plums 7524
- sapodillas 9085
- strawberries 2069
- tamarillos 6368
- tomatoes 544, 2317, 5131, 6946-6947, 7829-7830, 9614, 9617-9618, 10566

- stresses, tomatoes 2317

temperature

- apples 1114, 4782, 6580
- bananas 6384
- durians 2775
- grapes 2103, 5765, 7638
- kiwifruits 222, 9338
- mangoes 924, 1833
- pawpaws 9994
- tomatoes 3308

- thinning, apples 9201

- ultrastructure, apples 133

russetting

- anatomy, *Pyrus bretschneideri* 3892
- assessment, apples 7495
- cultural methods, pears 5677, 10241
- light, apples 7515
- plant growth regulators, apples 4789, 7493

Fruits cont.

russetting cont.

- plant training, cultivars, apples 4770
- rootstock scion relationships, apples 85
- ultraviolet radiation, apples 7515

set

- anatomy, *Litchi* 9901
- assessment
 - apples 5620
 - apricots 7516
 - Arctostaphylos uva-ursi* 8022
 - cashews 6387, 8130
 - Cornus sanguinea* 9798
 - Cucurbita moschata* 2218
 - grapes 8486
 - oil palms 10982
 - pomegranates 3632

biochemistry

- apples 1973
- oranges 8074

cultivars

- cashews 10914
- Citrus* 4517
- dates 10869
- oranges 8074
- pecans 10244
- cultural methods
 - apples 4784
 - avocados 3574
 - cashews 5464
 - figs 1142
 - mangoes 7333
 - oranges 7214
 - strawberries 5735
- Vaccinium angustifolium* 2049

- defoliation, apples 10137

fertilizers

- apples 1954, 6578, 10137
- avocados 6304-6305, 6308
- black currants 6648
- mangoes 7333
- olives 3625
- oranges 7214
- passion fruits 8106
- peaches 2959
- strawberries 1206
- Vaccinium corymbosum* 6664
- Ziziphus mauritiana* 966

- humidity, *Capsicum* 4194

irrigation

- cashews 1792
- pomegranates 4563
- light, *Ziziphus mauritiana* 7370

- models, apples 129

physiology

- apples 2911
- apricots 9255
- grapes 3958
- oranges 7214
- temperate fruits 71
- Ziziphus sativa* 7371

plant growth regulators

- apples 1104, 1953, 4784
- avocados 6308
- cashews 5464
- fruit crops 7429
- Ginkgo biloba* 9774
- Liquidambar styraciflua* 9774
- loquats 8978
- mandarins 8961
- mangoes 7333
- oranges 7214
- pears 2972, 10238, 10240
- peas 1400
- pumpkins 5488
- Pyrus pyrifolia* 2972
- sapodillas 10003
- tomatoes 9610
- Vaccinium ashei* 1201, 7578
- watermelons 2705, 2710, 8144

- plant nutrition, strawberries 10296

- plant training, figs 2942

- planting, almonds 1925

pollination

- almonds 73
- Aloe divaricata* 1591
- Annona squamosa* 1775
- apples 3796, 8237, 9199, 9309
- apricots 8326, 9258, 9260
- avocados 6304

Fruits cont.

set cont.

pollination cont.

Capsicum 4194
cherimoyas 10908
cherries 8237
cocoa 4594, 10918
Disa tenuifolia 4380
Litchi 1753
mangoes 7333, 10965
melons 6413
pears 6632, 9309
persimmons 7254
plums 8237
Vaccinium 5712

position, persimmons 5435

pruning

melons 10935
Ziziphus mauritiana 965

ringing

Litchi 7235
mandarins 8961
oranges 7214

shade, grapes 5764

soil temperature, *Capsicum* 3243

temperature

apples 9309
apricots 8326
Capsicum 4194
grapes 5764
pears 9309
Vaccinium ashei 7578

thinning, peaches 10217

water stress

clementines 9882
Litchi 3614

shape

assessment

pears 191, 3899
tamarinds 10026

cultivars

cashews 4590
Cucurbita moschata 5889

light, apples 7515

plant growth regulators

apples 3799, 4789
kiwifruits 220
persimmons 2657

pollination

apples 9199
cherimoyas 7264
pears 191

rootstock scion relationships, apples 4746

seasonal variation, pears 191

soilless culture, melons 908

ultraviolet radiation, apples 7515

size

assessment

apples 2924
avocados 3575
coconuts 7289
Cucurbita moschata 2218
kiwifruits 10271
persimmons 869
tamarinds 10026

covers, pomegranates 6366

cultivars

bananas 5454
cucumbers 7727
Cucurbita moschata 5889
dates 8087, 10870
okras 3227
peaches 4829
pineapples 2736
strawberries 240, 7584
tomatoes 9580

cultural methods

apples 1073, 7469
avocados 801
bananas 9011
clementines 5398
grapefruits 5379
guavas 10945-10946
mangoes 9976
oranges 5379
persimmons 9916
satsumas 8964
strawberries 5735
tomatoes 4213

disorders, oranges 828

Fruits cont.

size cont.

fertilizers

apples 1954, 8307
carambolas 9104
Cucurbita pepo 10490
figs 170
oranges 4508
peaches 8347
Phaseolus vulgaris 10490
pineapples 2734, 3682
strawberries 1206, 3942, 4891
Trichosanthes dioica 6815
Ziziphus mauritiana 966

harvesting date

cherries 8336
raspberries 1195

intercropping, mangoes 7324

irrigation

kiwifruits 8395
Lemaireocereus queretaroensis 2666

olives 862, 10882
peaches 8347
pears 187

measurement

apples 2915
grapes 1479
tomatoes 1479

models, apples 3807

mulching, avocados 3566, 9870

physiology, cucumbers 1370

plant growth regulators

apples 1104, 3798, 8307, 10133
apricots 9253
avocados 3575
cherries 8336
Citrus 4705
clementines 2619, 4524, 5398
dates 5415
fruit crops 7429
grapes 272
guavas 1822
kiwifruits 220, 10267, 10270
loquats 5424, 7239
mandarins 839, 2617
mangoes 9057, 10966
olives 862
peaches 2949
pears 4842, 10240
persimmons 2657
pineapples 2736
pomegranates 1767
Pyrus pyrifolia 4842
satsumas 8964
stone fruits 4705
tomatoes 9610
Vaccinium ashei 7578

plant nutrition, plums 4856

plant training, grapes 2086

pollination

almonds 73
apricots 8326
cherimoyas 7264
kiwifruits 2996
raspberries 1195

position, carambolas 2773

protected cultivation

apples 96
strawberries 1208

pruning

apples 3780, 10133
apricots 10180
bananas 882
clementines 5398
guavas 9049
pomegranates 873
satsumas 8964
walnuts 10257

ringing

avocados 3570
grapes 4913

rootstock scion relationships

apples 82, 85, 1932, 4738, 7459, 7468, 9180, 10100
nectarines 3842
peaches 4829

salinity

aubergines 400
cucumbers 400
peaches 5660

Fruits cont.

size cont.

scoring, pummelos 2593
seasonal variation, strawberries 240
shade

coffee 8136, 8141
melons 9963
tomatoes 9580

soil amendments, raspberries 3007

soil compaction, oranges 4500

soil pH, pineapples 3682

soilless culture

melons 908
tomatoes 3274

spacing

pineapples 2734
tomatoes 3260

temperature

apples 10142
Vaccinium ashei 7578

thinning

apples 4787, 9200, 10140
guavas 1822
mangoes 10967-10969
pears 10239

pomegranates 3633

water stress, tomatoes 502, 3260

temperature

climate, grapes 3963
mulching, grapes 3963

thinning

cultivars, apples 10140
cultural methods, apples 9200
economics, guavas 1822
fertilizers, peaches 2965
mechanical methods, grapes 1233, 4932

plant growth regulators

apples 128, 1104, 1108, 3798, 4787, 5621, 8277, 9200, 10131-10134, 10139-10140
clementines 2619
mandarins 2617, 4518-4519
peaches 2006, 4837
pears 2972, 10131, 10234
pecans 1172
pomegranates 3632-3633
Pyrus pyrifolia 2972
stone fruits 8235
temperate fruits 6534, 7449

responses

apples 1110, 2913, 7491, 9201, 10117, 10140
bananas 9011
Capsicum 6903
cucumbers 418
grapes 301, 1253, 3991-3992, 4915, 7615-7616, 9407
guavas 1822
mangoes 9976, 10967-10969
okras 9554
olives 8986
peaches 6625
pears 10234
plums 7551, 9325
satsumas 4521, 8962
temperate fruits 71
tomatoes 6903

techniques, apples 10134, 10141

Fuchsia

books 6472

growth retardation, plant growth regulators 7971

pest control, *Bradysia paupera* 5286

plant, development, growing media 51

pot plants

development, temperature 10611
production, cultural methods 7971

Fuchsia coccinea, plant nutrition, potassium 1546

Fuchsia colensoi, characteristics 8878

Fuchsia excorticata, characteristics 8878

Fuchsia excorticata × *Fuchsia procumbens*, characteristics 8878

Fuchsia perscandens, characteristics 8878

Fuchsia procumbens, characteristics 8878

Fulvia fulva, tomatoes 7811

Fumaria capreolata, taxonomy, chemotaxonomy 2536

Fumaria officinalis

as weeds, olives 8097

- Fumaria officinalis** *cont.*
taxonomy, chemotaxonomy 2536
- Fumariaceae**
seeds, anatomy 5164
taxonomy, chemotaxonomy 2536
- Fungi**
Citrus 2828, 8068
cucumbers 1348
edible species (*see* Edible fungi; Mushrooms)
ethnobotany, reviews 6528
grapes 2828, 8468
peaches 2960
plums 2960
populations, dwellings, pot plants 7857
tomatoes 2305, 7808
vegetables 2828
weed moulds, mushrooms 564
- Fungicides**
benomyl
application date, oranges 6332
injuries
Citrus 8068
Magnolia grandiflora 4392
residues, lawns and turf 8808
responses
cucumbers 5018
persimmons 5437
surfactants, lawns and turf 8808
benzimidazole
residues
apples 888
bananas 888
bitertanol
determination, bananas 6380
residues, bananas 6380
captan
persistence, tomatoes 527
residues, grapes 7626
responses, *Ziziphus mauritiana* 968
surfactants, apples 2906
carbendazim
determination
fruit crops 1911
vegetables 1911
persistence, tomatoes 527
residues
apples 5616
mushrooms 3338
Papaver somniferum 1691
responses
edible fungi 571
Litchi 1757
onions 9447
sapidillas 9086
chlorothalonil, injuries, *Magnolia grandiflora* 4392
chlorpyrifos-methyl, residues, grapes 311
copper fungicides, responses, apples 2893
copper hydroxide, injuries, *Magnolia grandiflora* 4392
copper oxychloride
injuries, *Zingiber officinale* 3516
persistence, tomatoes 527
cyproconazole, injuries, *Asparagus* 8618
dazomet, responses, carrots 5136
dichlofluanid, residues, grapes 7626
dichlorvos, responses, edible fungi 571
dicloran, residues, peaches 10224
difenoconazole
residues, apples 6570
responses, apples 2893
fenarimol, residues, lawns and turf 8812
fluzazinam, residues, grapes 7626
fosetyl
application methods, avocados 3572
persistence, tomatoes 527
responses, oranges 8948
imazalil
application date, oranges 6332
injuries, grapefruits 7219
responses, grapefruits 5405
iprodione
application methods, nectarines 6622
residues
grapes 1246
peaches 2010
responses, *Litchi* 1757
mancozeb
persistence, tomatoes 527
residues, tomatoes 6949
- Fungicides** *cont.*
mancozeb *cont.*
responses
edible fungi 571
onions 9447
maneb
determination
cucumbers 528
tomatoes 528
residues
cabbages 3081
Phaseolus vulgaris 3081
tomatoes 3081
methyl bromide, injuries, *Citrus* 8068
metiram, residues, pears 1165
myclobutanil, injuries, *Magnolia grandiflora* 4392
paclobutrazol, injuries, *Magnolia grandiflora* 4392
penconazole
injuries, *Gerbera* 8756
residues
apples 6570
grapes 311, 1257
potassium phosphonate, translocation, avocados 4477
prochloraz, application date, oranges 6332
procymidone, residues, grapes 311, 1246, 1257
propiconazole
injuries
Asparagus 8618
Valerianella locusta 3328
pyrazophos, residues, cucumbers 419
thiabendazole
application date, oranges 6332
determination
fruit crops 1911
vegetables 1911
residues
Citrus 10851
fruit crops 1054
Pleurotus ostreatus 3368
responses, grapefruits 9896
thiophanate-methyl, persistence, tomatoes 527
thiram
injuries, *Valerianella locusta* 3328
residues, pears 1165
tricyclazole, responses, tulips 652
tridemorph, responses, onions 9447
vinclozolin, residues, grapes 1246
zinc fungicides, responses, apples 2893
zineb
determination
cucumbers 528
tomatoes 528
persistence, tomatoes 527
responses, edible fungi 571
ziram
injuries, *Valerianella locusta* 3328
residues, grapes 7626
- Fusarium**
Asparagus 9545
control
of *Fusarium oxysporum* f.sp. *basilicum*, *Ocimum basilicum* 1047, 1666
of *Pythium ultimum*, cucumbers 1047
of *Rhizoctonia solani*, *Phaseolus vulgaris* 1047
cucumbers 1349
spinach 5838
Fusarium culmorum, *Phaseolus coccineus* 1380
Fusarium equiseti
populations, rhizosphere, tea 11005
tomatoes 6039
Fusarium oxysporum
Asparagus 5065
control
of *Fusarium oxysporum* f.sp. *cyclaminis*, *Cyclamen persicum* 632
of *Fusarium oxysporum* f.sp. *dianthi*, carnations 10615
Cryptotaenia japonica 9624
cucumbers 8576
Gladiolus 634
lettuces 8530
- Fusarium oxysporum** *cont.*
Lilium 649
onions 4961
Syzygium aromaticum 4444
tomatoes 1434, 2305, 8646
Fusarium oxysporum f.sp. *albhedinis*, dates 851
Fusarium oxysporum f.sp. *apii*, celery 6959
Fusarium oxysporum f.sp. *asparagi*, *Asparagus* 3225
Fusarium oxysporum f.sp. *basilicum*, *Ocimum basilicum* 1047, 1666
Fusarium oxysporum f.sp. *conglutinans*, *Brassica campestris* 9481
Fusarium oxysporum f.sp. *cubense*, bananas 4575, 6378, 7269, 9003, 10911
Fusarium oxysporum f.sp. *cucumerinum*, cucumbers 8576, 9512
Fusarium oxysporum f.sp. *cumini*, *Cuminum cyminum* 745
Fusarium oxysporum f.sp. *cyclaminis*, *Cyclamen persicum* 632
horticultural crops 7419
Fusarium oxysporum f.sp. *dianthi*, carnations 2379-2380, 4282, 6088, 10615
Fusarium oxysporum f.sp. *elaeidis*, oil palms 1839
Fusarium oxysporum f.sp. *fragariae*, strawberries 248, 2056, 3944
Fusarium oxysporum f.sp. *gladioli*, *Gladiolus* 9701
Fusarium oxysporum f.sp. *lycopersici*, tomatoes 1433, 1436, 1452, 5106, 6018, 6930
Fusarium oxysporum f.sp. *narcissi*, *Narcissus* 10651
Fusarium oxysporum f.sp. *niveum*, watermelons 1807, 4607
Fusarium oxysporum f.sp. *phaseoli*, *Phaseolus coccineus* 1380
Fusarium oxysporum f.sp. *radicis-lycopersici*, *Cissus rhombifolia* 3503
tomatoes 3290, 7812, 10552
Fusarium oxysporum f.sp. *zingiberi*, *Zingiber officinale* 1669
Fusarium pallidoroseum, tomatoes 6039
Fusarium solani
Cycas revoluta 7967
Lilium 649
pawpaws 929
watermelons 9966
- Gabon**
bananas, production 9927
fruit crops, production possibilities 5552
nut crops, production possibilities 5552
Gaeumannomyces graminis var. *graminis*, lawns and turf 4351
Gaillardia, cut flowers, production, cultural methods 7006
Gaillardia grandiflora, weed control 2372
Gaillardia pulchella
cut flowers, storage 7874
fertilizers
nitrogen 7874
phosphorus 7874
salinity, responses 7007
stomata, movement, light 10626
Galanthus nivalis, leaves, senescence 8792
Galinsoga
as weeds
endives 7687
lettuces 7687
Galinsoga ciliata 7702
as weeds
cabbages 7702
ornamental woody plants 7071
Galinsoga parviflora, as weeds, *Gladiolus* 6125
Galium, as weeds, olives 8097
Galium spurium, as weeds, olives 7242
Galium tricornutum, as weeds, olives 7242
Ganoderma, composition 8722
Ganoderma lucidum, cultural methods, Korea Republic 3358
Garcinia (*see also* Mangosteens)
Garcinia cambogia, grafting, cultural methods 9107
Gardenia jasminoides
flowers
development, biochemistry 10756

Gardenia jasminoides *cont.*flowers *cont.*

fragrance, biochemistry 10756

fruits

biochemistry 10755
composition 750, 10754*in vitro* culture, physiology 9807photosynthesis, *in vitro* culture 9807

planting stock, production, cultural methods 6221

weed control 1522, 6220-6221

Gardening, home gardens, books 9118**Garlic**

altitude, responses 5784

bulbs

biochemistry 7659
composition 4027
development
storage 2121
temperature 5782
quality, assessment 1277

conferences 5542

cultivars

assessment

Brazil 7405, 7655
Egypt 8503
India 10369disease resistance 7654
pest resistance 7654

disease control

Alternaria porri 10371-10372

Europe 10366

fungi 335

Puccinia allii 4026*Sclerotium cepivorum* 3084

viruses 7658

fertilizers

boron 7418

magnesium 1276-1277

nitrogen 1275-1277, 3083, 4950,
5786, 6747, 7657, 10370

phosphorus 3083, 6747, 7418

potassium 1276, 3083, 4950, 6747

sulfur 4024, 7418

zinc 6747

green manures 334

hail, injuries 315

herbicides

injuries 6746

tolerance 4949

in vitro culture

contaminants 5781

organogenesis 7656

propagation

micropropagation 2120, 5834,
7658

responses 7655

protoplasts 1279, 5834

responses, antibiotics 5781

techniques 4021

irrigation, systems 1275

manures 3083

mulching, materials 332

pest control

Aceria tulipae 3085*Ditylenchus dipsaci* 5780

Europe 10366

insects 335

Nematoda 335

plant, biochemistry 2358

plant extracts, utilization, fungicides 3213

plant growth regulators

chlormequat, responses 9434

2,4-D, responses 333

gibberellic acid, responses 333

maleic hydrazide, responses 9434

plant nutrition

copper 4025

manganese 4025

selenium 4025

zinc 4025, 4951

planting

planting date 329, 331, 4022

spacing 330, 332, 5783

systems 5783

planting stock

production, cultural methods 330

storage 329

treatment 333, 5780, 5782, 10372

pollution

aluminium 1278

Garlic *cont.*pollution *cont.*

cadmium 8515

production

Bangladesh 5798

China 5810

India 1283

Indonesia 5779, 5830

Philippines 5803

Portugal 5801

Réunion 5802

Spain 5801

Sri Lanka 5806

Taiwan 5797

Tanzania 5804

Thailand 5807

production possibilities, Malaysia 5809

protoplasts, isolation 1279

reports, India 8193

research, Indonesia 5779

roots, cytology 1278, 7673

seeds, sowing, spacing 6744

shoots, storage, physiology 1280

soil solarization 3084

soil types 5784

storage

physiology 5787

quality

drying 3086

gamma radiation 8504

systems, cold storage 5787

temperature 2121

treatment 3086

taxonomy, reviews 5532

utilization, China 4020

weed competition 4023

weed control 2122, 4949, 5785, 6745-
6746, 10366*Garruga pinnata*, plant residues, utilization,
soil amendments 9821*Garrya elliptica*, *in vitro* culture, propaga-
tion, micropropagation 6222**Gases**, diffusion, storage, horticultural crops
2838*Gasteria*, *in vitro* culture, propagation,
micropropagation 4360*Gasteria liliputana*, *in vitro* culture, propaga-
tion, micropropagation 4360*Gastrodia elata*, mycorrhizas 6283**Gastropoda**, lettuces 1316*Gaultheria*

mycorrhizas 6510

surveys, Chile 6510

Gaultheria phyllireifolia

mycorrhizas 6510

surveys, Chile 6510

Gaultheria poeppigii

mycorrhizas 6510

surveys, Chile 6510

Gentiana, flowers, colour, biochemistry
1551*Gentiana macrophylla*, pollen, development,
histology 1685*Gentiana scabra*

cropping systems, intercropping 8032

intercropping, maize 8032

*Geotrichum candidum**Citrus junos* 10864

mandarins 6342

tomatoes 6039

Geotropism*Antirrhinum* 6086*Coprinus cinereus* 8728

cress 4123, 8557

Flammulina velutipes 8728*Opismenus hirtellus* 3457

peas 7761, 8557

radishes 393

Tradescantia fluminensis 3457*Vicia faba* 10498*Geraeus*, *Bactris gasipaes* 11022**Geraniums** (see *Pelargonium*)**Gerbera**

breeding

genetic variance 6997

selection 6996

cultivars, disease resistance 7872

cut flowers

drying 5162

preservatives 9650

Gerbera *cont.*cut flowers *cont.*production, cultural methods 606,
3395, 8751-8753, 9667, 10622production possibilities, Mauritius
10605

quality

plant growth regulators 8757

rare earth elements 4286

senescence 6996

ultrastructure 9668

vase life 6996-6997, 9650, 9668

disease control, *Phytophthora cryptogea*
3396, 7872

fertilizers, trace elements 4286

flowers, development, fertilizers 4286

in vitro culture

culture media 9666

inoculation, *Glomus* 606

propagation, micropropagation 8750

irrigation, frequency 8753

mycorrhizas 606, 4692

pest control

Frankliniella occidentalis 7867, 8754*Tetranychus urticae* 7867*Thrips tabaci* 7867

plant

abnormal development 8756

composition 8219

plant growth regulators, ethephon,
responses 8757protected cultivation, systems, green-
houses 8751seedlings, development, cultural methods
6097

soilless culture

growing media 8664, 8752-8753,
8755, 9667, 10622

systems, assessment 3395

transpiration

seasonal variation 8755

soilless culture 8755

Germany*Arnica montana*, cultural methods 5334

black currants, cultivars 227

Camellia, climate 3473

carrots, cultivars 3318

cherries

cultivars 2930

production 5636

rootstocks 1990, 3744, 8328

chicory, cultivars 8527

chrysanthemums, cultivars 3386

culinary herbs

pest control 6083

production 8887

cut flowers, marketing 3379

fruit crops, pest control 7422

grapes

cultivars 4902-4903, 8448

cultural methods 5742

disease control 8477

pest control 3057, 8477

hops, pest control 3534

horticultural crops

information services 3715, 8198

pest control 2832

horticulture, renewable resources 1019

Ioichroma cyaneum, cultural methods
4420

lawns and turf, species 4341

lettuces, cultivars 4984

medicinal plants, production 8887

Opuntia ficus-indica, production pos-
sibilities 9626

ornamental plants, pest control 6083

ornamental woody plants, surveys 2458

plums, cultivars 1174

pot plants, marketing 3379

red currants, cultivars 227

roadside plants, surveys 2463

spice plants, production 8887

Urtica dioica, cultural methods 8929

vegetables

disease control 7648

economics 5767

pest control 7648

Viola cornuta, cultivars 10636*Viola wittrockiana*, cultivars 10636**Gevuina avellana**

cuttings, cultural methods 2036

- Gevuina avellana* cont.
reviews 9332
- Ghana**, bananas, production 3639
- Gherkins** (see Cucumbers)
- Gibberella acuminata*, onions 4961
- Gibberella avenacea*, carnations 5165-5166
- Gibberella fujikuroi*
Asparagus 5063, 5065, 9545
control
of *Fusarium oxysporum* f.sp. cyclaminis, *Cyclamen persicum* 632
of *Fusarium oxysporum* f.sp. lycopersici, tomatoes 1452
Cycas revoluta 7967
Lilium 649
- Gibberella fujikuroi* var. *intermedia*, *Cycas revoluta* 7967
- Gibberella fujikuroi* var. *subglutinans*, control, of *Fusarium oxysporum* f.sp. lycopersici, tomatoes 1452
- Gibberella pulicaris*, carrots 9623
- Gigaspora**
mycorrhizas
Asparagus 6119
Tagetes 6119
- Gigaspora margarita**
mycorrhizas
apples 10119
Asparagus 5062
aubergines 6002
coffee 1805, 3660, 9028
Malus toringo 10119
onions 6753, 10382
oranges 8061
tomatoes 8669
Ziziphus mauritiana 5518
Ziziphus xylopyrus 11017
- Gigaspora ramisporophora*, mycorrhizas, satsumas 3587, 5377
- Ginger** (see Zingiber officinale)
- Ginkgo biloba**
cultural methods, China 10734
fruits, set, plant growth regulators 9774
- Gladiolus**
breeding, pest resistance 8787
corms
development, histology 6122
production
cultural methods 7890-7891, 9699
equipment 9702
storage, systems 626
treatment 8788, 9701
cultivars, assessment, Italy 634
cut flowers
biochemistry 636
preservatives 3431
production, cultural methods 635, 7890-7891, 8788
production possibilities, Mauritius 10605
quality
fertilizers 9700
spacing 6124
senescence 10643
vase life 637, 7892
fertilizers 6788
potassium 9700
flowers
development
light 635
plant growth regulators 8788
senescence 637
vascular system 10643
handling, equipment 9702
harvesting, equipment 9702
in vitro culture
propagation, micropropagation 3429-3430, 6126
somatic embryogenesis 1563
pest control, *Fusarium oxysporum* f.sp. gladioli 9701
plant, composition 6126
plant growth regulators, 2-KhEFK, responses 8212
planting
planting date 7016, 7890
spacing 6124
planting stock, size 7016, 10642
research, Taiwan 8203
weed control 6125
- Gladiolus** cont.
yields, correlation 10644
- Gladiolus palustris**
conservation, Hungary 10641
ecology, Hungary 10641
- Gladiolus tubergenii*, corms, dormancy, physiology 1564
- Glasswool**, utilization, propagation, chrysanthemums 3387
- Glaucium flavum**, disease control, *Corticium rolfsii* 10627
- Glechoma hederacea**, as cover crops, apples 2869, 2879, 3778, 4764, 10113
- Gleditsia triacanthos**
cultivars, characteristics, USA 9769
in vitro culture, organogenesis 6223
pest control, *Dasineura gleditchiae* 7110
soilless culture, nutrient solutions, temperature 8223
- Glehnia littoralis**, *in vitro* culture, propagation, micropropagation 8713
- Gliocladium roseum**
control
of *Botrytis cinerea*, onions 339
of *Fusarium oxysporum* f.sp. radicle-lycopersici, tomatoes 3290
of *Sclerotinia squamosa*, onions 8510
of *Verticillium dahliae*, aubergines 6906
- Gliocladium virens**
control
of *Corticium rolfsii*, Zingiber officinale 7137
of *Fusarium oxysporum* f.sp. radicle-lycopersici, tomatoes 3290
of *Fusarium oxysporum* f.sp. zingiberi, Zingiber officinale 1669
of *Phytophthora colocasiae*, mandarins 10847
of *Phytophthora nicotianae* var. *parasitica*, mandarins 10847
of *Rhizoctonia solani*
aubergines 10528
Capsicum 10528
Zinnia elegans 10528
of *Sclerotinia sclerotiorum*, lettuces 5846
- Gliricidia sepium**, as shade plants, coffee 3659, 8138
- Globe artichokes**
cold, resistance, plant growth regulators 5843
cultivars
assessment, Italy 353
characteristics
Italy 5842
USA 4065
disease control, *Pythium* 1300
harvesting
harvesting date
plant growth regulators 4067
sowing date 4067
in vitro culture, organogenesis 354
insecticides, residues 4979
pesticides, residues 7421
planting, planting date 4066
planting stock, types, assessment 4066
seeds, sowing, sowing date 4067
soil solarization 1300
storage
quality
plant growth regulators 7681
shade 7681
- Gloeodes pomigena**, apples 3805
- Gloeosporium**
apples 7477
Magnolia grandiflora 4392
- Gloeosporium theae-sinensis**, tea 3688
- Glomerella cingulata**
Aglanema modestum 675
avocados 817, 3579, 6309
cherries 6600
Citrus junos 10864
coffee 2694-2695, 6403
Cyclamen 3427
Dracaena deremensis 7921
guavas 2718
mandarins 6342
mangoes 8149, 9054, 10975-10978
Ocimum basilicum 746
- Glomerella cingulata** cont.
oranges 1742
peaches 10218
Vinca minor 1659
- Glomus**
mycorrhizas
Citrus 9887
lettuces 10548
strawberries 1209
tomatoes 10548
- Glomus aggregatum**
mycorrhizas
Bactris gasipaes 1855
Cassia siamea 3540
- Glomus ambisporum**, mycorrhizas, satsumas 3587, 5377
- Glomus caledonium**, mycorrhizas, cucumbers 5018
- Glomus clarum**
mycorrhizas
Citrus limonia 8060
coffee 1805, 3660, 9028
mandarins 8060
oranges 8054
tomatoes 8669
- Glomus constrictum**, mycorrhizas, Cyamopsis tetragonoloba 3209
- Glomus deserticola**
mycorrhizas
lettuces 4074
Ziziphus mauritiana 5518
Ziziphus nummularia 3691
- Glomus dimorphicum**, mycorrhizas, cucumbers 402
- Glomus epigalum**, mycorrhizas, Capsicum 1413
- Glomus etunicatum**
mycorrhizas
apples 10119
Asparagus 6119, 10512
aubergines 6002
coffee 3660, 9028
Gerbera 606
horticultural crops 877
leeks 2124
Malus toringo 10119
oranges 8054, 8061
pawpaws 9062
Tagetes 6119
Tagetes erecta 7013, 10634
tomatoes 8669
Welsh onions 3101
Zinnia elegans 7013, 10634
- Glomus fasciculatum**
mycorrhizas
Cyamopsis tetragonoloba 3209
Gerbera 606
grapes 274
lettuces 4074, 9461
onions 4959, 9444
satsumas 3587, 5377
tomatoes 10553
Ziziphus mauritiana 5518
Ziziphus nummularia 5519
Ziziphus xylopyrus 11017
soil inoculation
Capsicum 5075
onions 5075
- Glomus intraradices**
control, of *Fusarium oxysporum* f.sp. radicle-lycopersici, tomatoes 10552
mycorrhizas
cherries 1132
Citrus 9887
cucumbers 402-403
Cymbopogon winterianus 7141
horticultural crops 877, 4692
peas 10501
plums 203
sour oranges 7201
strawberries 2059
- Glomus macrocarpum**
mycorrhizas
bananas 4574
grapes 274
Ziziphus xylopyrus 11017
- Glomus manihotis**
mycorrhizas
horticultural crops 877
onions 4959

Glomus mosseae
mycorrhizas

- Asparagus* 6119
- bananas 4574
- Capsicum* 1413
- Citrus* 9887
- cucumbers 402
- Cyamopsis tetragonoloba* 3209
- Gerbera* 606
- grapes 274, 5752, 6705
- leeks 6748
- onions 6753
- pawpaws 9991
- peaches 5657
- plums 203, 8382
- satsumas 3587, 5377
- sour oranges 9881
- Tagetes* 6119
- tomatoes 8678
- peas 441
- root inoculation, grapes 6705

Glomus occultum, mycorrhizas, oranges 8061**Glomus versiforme**, mycorrhizas, tea 955**Gloriosa superba**

- fertilizers, nitrogen 3545
- flowers, biology 9713

Glossocardia bosvallia

- plant competition, *Borreria stricta* 5339
- planting, spacing 5339

Gloxinia sylvatica, cultural methods, Irish Republic 2412**Glucosinolates**

- biochemistry
 - Brussels sprouts 6798
 - cabbages 6798
- biosynthesis
 - radishes 9498
 - watercress 9498
- composition
 - Brassicaceae 10368
 - radishes 7723, 10459
- metabolism
 - seasonal variation, *Brassica* 8554
 - storage
 - broccoli 2189
 - cabbages 6797
- taxonomy
 - Carica quercifolia* 9990
 - pawpaws 9990

Glycine max

- cultural methods, USSR 5983
- fertilizers, nitrogen 4943
- production possibilities, USA 8491
- seeds, production, cultural methods 2262

Glycosides

- biochemistry, *Petunia* 3401
- characterization
 - Bromelia plumieri* 8172
 - Petunia* 8760
- composition
 - broccoli 5876
 - chrysanthemums 5876
 - Citrus* 4526
 - Citrus sudachi* 4533
 - grapes 6720
 - Jasminum sambac* 7081
 - Macadamia* 8980
 - natsudaids 4533
 - Oenanth javanica* 6961
 - Plantago lanceolata* 4466
 - satsumas 10867
 - tomatoes 8688
 - Vaccinium corymbosum* 8421
- determination, grapes 10356
- metabolism
 - cultivars, grapes 10345
 - disorders, apples 5627
 - in vitro* culture, *Schlecterina mitostemmatoides* 1706
 - irrigation, *Urginea maritima* 6291
 - ripening, grapes 2099, 10345
 - seasonal variation, *Chamomilla recutita* 7162
 - soil types, *Urginea maritima* 6291
 - temperature, tomatoes 3308
 - ultraviolet radiation, grapes 2099
- production, cultural methods, *Digitalis* 4458
- taxonomy
 - Liliaceae 5155

Glycosides cont.

- taxonomy cont.
 - Rosaceae 4387
- Glycosmis pentaphylla*, *in vitro* culture, somatic embryogenesis 8899
- Glycyrrhiza*, plant, biochemistry 8033
- Glycyrrhiza aspera*, cultural methods, China 7155
- Glycyrrhiza inflata*, cultural methods, China 7155
- Glycyrrhiza korshinskyi*, cultural methods, China 7155
- Glycyrrhiza uralensis*, cultural methods, China 7155
- Gnaphalium purpureum*, as weeds, lawns and turf 6149
- Gnetum africanum*, cuttings, rooting, growing media 4263
- Gnetum gnemon*, *in vitro* culture, organogenesis 4678
- Godeitia* (see also *Clarkia*)
- Gold, responses, *Vitex negundo* 9861
- Gomphrena globosa*, photosynthesis, light 4301
- Gonimbrasia belina*, *Litchi* 8091
- Goniothalamus macrophyllus*, ovules, morphology 2834
- Goodenia*, species, pot plants 9639
- Goodyera procera*, flowers, anatomy 7927
- Gooseberries
 - cultivars
 - characteristics
 - Russia 2043, 4872
 - UK 5702
 - Ukraine 4873
 - disease resistance 4873
 - flowering date 3004
 - cuttings, cultural methods 4862
 - fertilizers
 - iron 4874
 - magnesium 4874
 - nitrogen 4874
 - fruits, composition 5701
 - harvesting, equipment 9343
 - plant
 - composition 9152
 - development, phenology 3004
 - plant training, systems 3003, 10277
 - pollution
 - cadmium 7568
 - copper 7568
 - lead 7568
 - seeds, composition 5701
 - taxonomy, chemotaxonomy 1189
- Gossampinus malabarica* (see *Bombax malabaricum*)
- Gossyparia spuria*, *Ulmus* 6237
- Gracilaria*
 - ecology, Namibia 1699
 - plant, composition 1700
 - plant nutrition
 - nitrogen 10809
 - phosphorus 10809
- Gracilaria chilensis*, propagation, techniques 5349
- Gracilaria eucheumoides*, plant, composition 779
- Gracilaria gracilis*, products, proteins 1695
- Gracilariopsis lemaneiformis*
 - plant, biochemistry 4470
 - products, polysaccharides 1701
- Grading
 - equipment, cucumbers 10483
 - mechanization, mandarins 2622
 - techniques
 - apples 5631-5632
 - fruit crops 5581
 - horticultural crops 8230
 - melons 7315
 - tomatoes 5581, 6948, 10573
- Grafting (see also Budding; Topworking)
 - budwood
 - sources
 - apples 1086
 - pears 1086
 - cultural methods
 - Garcinia cambogia* 9107
 - Hevea* 4639
 - roses 5270
 - vegetables 4935

Grafting cont.

- equipment
 - cucumbers 399, 10464
 - Cucurbitaceae 8564
 - vegetables 4935
- responses
 - aubergines 1426
 - tomatoes 1426
- rootstocks
 - age, mangoes 7321
 - assessment
 - hazelnuts 1139
 - jackfruits 8112
 - watermelons 9039
- scions
 - assessment
 - cashews 8128
 - grapes 7601
 - ornamental woody plants 5259
 - sapodillas 11000
 - sources, grapes 7601
 - storage, mangoes 2720, 10948
 - treatment, mangoes 2720, 7321, 10948
- seasons
 - avocados 6301
 - cashews 1789
 - sapodillas 1846
- techniques
 - assessment
 - Annona muricata* 10907
 - avocados 6301
 - grapes 5751
 - Terminalia bellirica* 7180
 - Terminalia chebula* 7180
 - walnuts 9329
 - bench grafts, apples 8246, 8248
 - cuttings
 - apples 8248
 - roses 3492
 - in vitro* culture, *Nicandra physalodes* 2560
 - inarching
 - Citrus* 3591
 - mangoes 1824
 - sapodillas 9083
 - mechanical methods
 - cucumbers 10464
 - Cucurbitaceae 8564
 - vegetables 4935
 - micropropagation
 - Acacia senegal* 7184
 - Citrus nobilis* × mandarins 3583
 - grapes 2080, 7607
 - oranges 3583
 - responses, tea 10006
 - seedlings, cucumbers 398
- unions
 - anatomy, roses 10726
 - development
 - Nicandra physalodes* 2560
 - oranges 2591
 - roses 5270
 - histology
 - grapes 1225
 - horticultural crops 4680
 - Nicandra physalodes* 2560
 - physiology
 - Cucurbitaceae 6831
 - oranges 5382
 - Tradescantia fluminensis* 6831
 - treatment
 - Acer palmatum* 10716
 - chestnuts 1994, 10199
 - Corylus avellana* 10716
 - hazelnuts 9271, 10200, 10716
 - horticultural crops 1894
 - Quercus robur* 10716
 - walnuts 9329

Gramineae (see Poaceae)**Granulosis viruses**

- control
 - of *Cydia pomonella*, apples 1967
 - of *Darna trima*, tea 2760

Grapefruits

- cultivars
 - assessment, New Caledonia 4493
 - disease resistance 4492
- disease control, *Diaporthe citri* 9890
- disorders
 - blight 9888

Grapefruits cont.

disorders cont.

- blossom end clearing 5401
- chilling injury 5405, 6340, 7219-7220, 7223-7224, 9896
- oleocellosis 8081
- red blotch 8081
- rind pitting 4527
- spongy fruit 4530
- dwarfing, viroids 6314
- fertilizers, nitrogen 5370, 5375, 5378, 8063
- frost, resistance, plant nutrition 5370
- fruits
 - biochemistry, plant growth regulators 1740
 - colour, plant growth regulators 10858
 - composition 4535
 - degreening, insecticides 5395
 - development
 - anatomy 4523
 - physiology 4523
 - quality
 - gamma radiation 4530
 - plant growth regulators 10858
 - size, cultural methods 5379
 - ultrastructure 7223
- herbicides, residues 3612
- in vitro* culture, somatic embryogenesis 6316
- insecticides, responses 5395
- irrigation, water, salinity 8063
- leaves
 - colour, measurement 6320
 - composition 5370
- photosynthesis, salinity 8063
- plant growth regulators
 - ethephon, responses 1740
 - gibberellic acid, responses 4530, 5400
- respiration, storage 10862
- roots, composition 4513
- rootstock scion relationships
 - growth 6314
 - physiology 7196
 - plant nutrition 7196
 - yields 8942
- shoots, vascular system 4523
- storage
 - disease control 4530, 7219
 - disorders 4527, 4530, 5401, 6340, 7219-7220, 7223, 8081, 9896
 - pest control 4528
 - physiology 7223, 10862
 - quality
 - position 6340
 - rootstock scion relationships 8056
 - scrubbers, ethylene 8081
 - systems, controlled atmosphere storage 8081
 - temperature 10862
 - treatment 846, 4528, 4530, 5402, 5405, 7219, 7224, 8081
- transpiration, plant water relations 4511
- water stress, responses 7210, 8957

Grapes (see also Vitis)

- air layering, techniques 4906
- altitude, responses 9387
- books 7
- buds
 - biochemistry, temperature 7633, 8481
 - composition 260, 6693
 - development, physiology 293
 - dormancy
 - calcium cyanamide 2085
 - cyanamide 4927, 9401
 - physiology 292, 9402-9403
 - plant growth regulators 2085
 - temperature 1251
 - fruiting potential 299
 - histology 5763
 - physiology 5762
 - thinning, responses 6700
- climate 2081
 - Brazil 10307
 - China 3961
 - France 4001
 - microclimate 1231, 3039, 3963, 6722
 - monitoring 7638
- cold
 - resistance
 - biochemistry 6693, 8481

Grapes cont.

cold cont.

- resistance cont.
 - physiology 6715
- conferences 3708, 6483-6484, 9125
- cooling, models 1255
- cover crops
 - cultural methods 9388
 - responses 267, 2093, 3034, 3968
- cropping systems, intercropping 1030
- cultivars
 - assessment
 - Austria 3040
 - Brazil 7405
 - China 3030
 - France 4902-4904
 - Germany 4902-4903, 8448
 - Guadeloupe 1232
 - Italy 1223, 5746, 9378
 - USA 3952, 9377
 - Venezuela 8447
 - biochemistry 4901
 - characteristics
 - China 5748, 5750, 8449
 - France 4905, 5747, 6685, 10312
 - Hungary 10313
 - Italy 1224
 - Spain 10312
 - Ukraine 2075
 - USA 2076, 5749
 - clones 4901, 4904, 7597, 8437, 10312
 - composition 309, 2106, 6684, 10356
 - dessert cultivars 8432
 - disease resistance 259, 1222, 1229, 9414, 10310
 - economics 6682
 - harvesting date 306
 - identification 1218-1219, 1221, 2074, 3029, 3951, 4901, 6683, 7597, 8433-8446, 9376
 - morphology 4901
 - pest resistance 1892, 7598-7599
 - phenology 9379
 - pollen 6718
 - pruning 10327
 - salinity 8459
 - temperature 4910, 5744-5745
 - wine cultivars 4002, 4902-4903, 8447, 10306, 10311-10313
- cultural methods
 - Brazil 2073, 10307
 - Germany 5742
 - Italy 5755
 - labour requirements 6695
 - mechanization 1233, 2083, 3965, 5756, 6695
 - slopes 3964
- cuttings
 - cultural methods 8450
 - treatment 284, 8451, 10315
- deblossoming, responses 3992
- defoliation, responses 1250, 1253, 3038, 5759, 6698, 10350
- disease control
 - Agrobacterium vitis* 6707, 10335
 - Aspergillus niger* 5759
 - Botrytis cinerea* 282, 1048, 9424, 5759, 8469-8471, 10338
 - Coniella diplodiella* 6709, 8470, 10337
 - Elsinoe ampelina* 3979, 7626, 10337
 - esca 9413
 - Eutypa lata* 4923, 10339
 - France 4917
 - fungi 2828, 8468
 - Germany 8477
 - Guignardia bidwellii* 3980, 8470
 - Italy 6532, 9412
 - Monilinia fructicola* 8473
 - Phellinus igniarius* 3059
 - Phomopsis viticola* 8470
 - Plasmopara viticola* 67, 279, 282, 1242, 4919, 4922, 4924, 6708, 7639-7640, 8469-8470, 10336-10337, 10342
 - Pseudopeziza tracheiphila* 8470
 - Rhizoctonia solani* 276
 - Uncinula necator* 279-282, 1046, 1243, 2091, 2892, 3058-3059,

Grapes cont.

disease control cont.

- Uncinula necator* cont.
 - 4920-4921, 4924, 8469-8470, 8472, 10337
- USA 9395
- viruses 8467
- Xylophilus ampelinus* 10334
- diseases, surveys, Canada 277
- disorders
 - bud necrosis 2090
 - chlorosis 1240, 5752, 6705, 10332
 - coulure 6696
 - cracking 2103
 - stalk necrosis 278, 3977-3978, 4918, 7620, 9396
 - sunscaud 2103
- dormancy
 - cyanamide 1251
 - physiology 8482
- dried fruit, production, India 10357
- ecology, reviews 3962
- economics
 - Chile 4675
 - Korea Republic 1217
 - Slovakia 10309
 - USA 4675
- environmental factors, models 9386
- fertilizers 3046, 10326, 10333
 - calcium 8488
 - magnesium 3042
 - nitrogen 267, 1238, 2843, 3042, 3047-3048, 3052, 4916, 7444, 8466, 9393, 10329-10331
 - phosphorus 2843, 3052
 - potassium 275, 2843, 3033, 3042, 3050, 3052, 10331
 - sulfur 3052
- flowers
 - development
 - histology 3988
 - temperature 6717
 - initiation, plant growth regulators 299
- forcing 8484
- frost
 - injuries 10321
 - protection, fans 6694
 - resistance
 - assessment 2082
 - cultivars 4910, 5744-5745, 7610, 10322
 - physiology 7632
 - responses 5763, 7633
- fruits
 - abscission, cultural methods 302
 - aroma, biochemistry 10356
 - biochemistry 3993
 - climate 10348
 - cultivars 9410
 - diseases 10348
 - harvesting date 4000
 - plant nutrition 6719
 - plant training 2086
 - ripening 10345
 - seasonal variation 3997-3998
 - colour
 - assessment 303, 4003
 - biochemistry 2100
 - composition 309-310, 1256, 2100, 2105-2106, 3053, 3996, 3999-4000, 4931, 5743, 6684, 6720, 6725, 8490, 9404
 - development
 - assessment 3734
 - biochemistry 4931, 6723, 10347
 - cultural methods 3966, 4927, 10350
 - fertilizers 3052
 - histology, reviews 10346
 - parthenocarp 2101, 2104, 9406
 - physiology 3066-3067
 - plant growth regulators 10349, 10351
 - protected cultivation 264
 - shade 5764
 - temperature 5764
 - water stress 2096, 9409
 - drop, biochemistry 300
 - microorganisms 305
 - physiology 6722, 7630

Grapes cont.

fruits cont.

quality

- altitude 9387
- biochemistry 8489
- cultivars 4904, 9411
- cultural methods 6698, 6721, 10355
- defoliation 3991, 3994
- fertilizers 1238, 3050, 3052, 10331
- irrigation 266
- models 6692
- plant growth regulators 272, 7636, 10347
- plant nutrition 3049
- ringing 4913
- rootstock scion relationships 261, 2079, 3032, 3954, 6686, 7602, 7604
- storage 8489
- thinning 301, 3991-3992

ripening

- biochemistry 304, 2099, 3065, 3995, 7637
- climate 9408
- cultivars 304, 7638
- cultural methods 302, 1254
- physiology 305
- plant growth regulators 272, 2836
- rain 7638
- ringing 4913
- rootstock scion relationships 3032, 3954, 7604
- temperature 2103, 5765, 7638

set

- assessment 8486
- physiology 3958
- plant growth regulators 7429
- shade 5764
- temperature 5764

size

- measurement 1479
- plant growth regulators 272, 7429
- plant training 2086
- ringing 4913

temperature

- climate 3963
- mulching 3963
- thinning, responses 301, 1253, 9407
- ultrastructure 6351, 9410
- reviews 10346

- fungicides, residues 311, 1246, 1257, 7626, 10342

grafting

- scions, assessment 7601
- techniques
 - assessment 5751
 - micropropagation 2080, 7607
- unions, histology 1225

growing media, plant nutrition 9381

hail

- injuries 4717, 7611
- responses 6701

harvesting

- equipment 307, 4932
- harvesting date
 - assessment 306, 3999
 - cultural methods 3966
 - forecasting 3065

techniques

- assessment 10352
- mechanical harvesting 3068

herbicides, injuries 278

hybrids, disease resistance 10310

hypoxia 7614

in vitro culture

- anatomy 263
- anthers 1228
- biochemistry 297-298, 1239, 2097, 3993, 4928, 10328
- cell suspensions 297, 2097, 10328
- culture media 262, 3955, 8483
- disorders, vitrification 3957
- embryos 1227
- explants, sources 8484
- physiology 294
- propagation
 - micropropagation 3957-3958, 4907-4908, 8453, 10318
 - responses 3958, 7627, 7629

Grapes cont.*in vitro* culture cont.

propagation cont.

- techniques 3955, 7607
- reviews 4909
- responses
 - polysaccharides 1229
 - surfactants 263
 - water stress 263
- somatic embryogenesis 3956, 3959, 6691, 9384-9385
- techniques, books 10036
- inflorescences, development, plant growth regulators 3989
- insecticides
 - determination 10343
 - injuries 3960
- irrigation
 - requirements, determination 1236
 - responses 266, 5751, 7614
 - systems 3036, 6682, 8460
 - water
 - composition 2088
 - salinity 2077, 8459

leaves

- anatomy 263
- areas, assessment 1247, 3994, 10109
- biochemistry 4929
- fruiting 10345
- composition 296, 3053, 3987, 6705, 7635, 9392, 9405
- development
 - biochemistry 296
 - cultivars 3983
- morphology 1221, 7597, 7627, 8437
- physiology 7612, 10070

legislation

- European Union 7600
- Hungary 7600

manures 1238

mulching

- materials 3963, 6697
- responses 2870

mycorrhizas 274, 5752

nutrients

- requirements
 - analysis 3974, 6704
 - assessment 3043-3045, 9391
- translocation 9403
- uptake
 - climate 3054
 - cultural methods 3038
 - drought 3975
 - rootstock scion relationships 3975
 - seasonal variation 3042
 - soil structure 3041
 - soil temperature 3041
 - soil water 3054

organic culture 5742

ovules

- development 8486
- histology 3988

packing, containers 8489

pest control

- Acari 1922, 2892, 3060, 7484, 8474
- Bandicota bengalensis* 3061
- Brevipalpus chilensis* 2846
- Byctiscus betulae* 10340
- Calepitrimerus vitis* 284, 289, 2092, 3060
- Eotetranychus pruni* 7621
- Erythroneura elegantula* 8476
- Eupoecilia ambiguella* 286, 5760, 7622-7623, 10341
- France 4917
- Germany 3057, 8477
- Hyphantria cunea* 287
- insects 285
- Italy 3055-3056, 6532, 9412
- Janetiella oenophila* 287
- Lobesia botrana* 279, 286, 290-291, 1245, 3790, 3981, 5760, 6710, 7622-7624, 8475, 10341
- Meloidogyne incognita* 276
- Melolontha melolontha* 9196
- Metcalfa pruinosa* 287, 1045, 1094
- Panonychus ulmi* 6533
- Paranthrene regalis* 2089
- Phyllocoptes vitis* 289
- Platynota stultana* 4926
- Scirtothrips dorsalis* 7625

Grapes cont.

pest control cont.

- Switzerland 6706
- Tetranychus kanzawai* 4925, 7598
- Tetranychus pacificus* 1244
- Tylenchulus semipenetrans* 283
- USA 9395
- Vitacea polistiformis* 288
- Zetzellia mali* 3060

pesticides

- application methods 1241, 8478
- residues 1257, 7421

pests, surveys, Chile 6516

photosynthesis

- cultural methods 3991
- diurnal variation 10344
- fertilizers 1249
- light 8466
- measurement 7128
- models 9400
- photoinhibition 3063, 5761
- plant training 271
- rootstock scion relationships 271, 1249
- seasonal variation 3997-3998

plant

- biochemistry 295
- cultural methods 3966
- seasonal variation 4930

canopy

- assessment 6702
- development 268
- light 3062
- models 3982
- physiology 3971
- composition 4928
- development
 - climate 7609
 - cultivars 9399
 - models 9408
 - phenology 2094-2095, 9408
 - temperature 9399, 10320
- morphology 3958, 7629

plant growth regulators

- abscisic acid, metabolism 292
- auxins, metabolism 292, 10314
- gibberellic acid
 - application date 2102
 - responses 8487
- gibberellins, metabolism 292
- growth stimulators, responses 2087
- NAA, application date 2102

plant nutrition 274

- boron 2088, 3051, 3053
- calcium 3034, 6705, 7619
- copper 3051
- iron 1240, 3053, 5752
- magnesium 3034
- manganese 3051, 3053
- nitrogen 278, 3034, 3048-3049, 9393, 9396
- phosphorus 1239, 9381
- potassium 3031, 3049
- trace elements 10333
- zinc 3051, 9392, 9394

plant residues, utilization, growing media 630, 8743

plant training

- labour requirements 3964, 3972, 6703
- responses 271
- systems 269-270, 307, 1234, 1236, 2086, 3038-3040, 3062, 3971-3973, 3982-3983, 4914-4915, 5758, 6689, 6702-6703, 7605, 7615-7616, 7618, 8462-8464, 9390

plant water relations

- assessment 5754
- models 6692, 7631
- physiology 293
- rootstock scion relationships 3954
- water stress 7630, 9409
- planting, spacing 1236, 6703, 10319
- planting stock
 - establishment 10316
 - production, cultural methods 9380
 - treatment 3960

pollen

- germination, inhibitors 9406
- morphology 6718
- tubes, development 8486

- Grapes cont.**
 pollen cont.
 ultrastructure 3990
 pollution
 ozone 1230
 radionuclides 1442
 processing
 quality
 cultivars 4000, 4002, 4902-4903
 environment 1231, 4001
 harvesting date 3999
 production
 Brazil 6488, 10307
 China 8432
 climatic change 7609
 Croatia 1216
 energy requirements 7593, 10323
 Hungary 10306
 Indonesia 10308
 Romania 8431
 slopes 5754
 Uruguay 6681
 production possibilities, Guadeloupe 1232
 products, oils 10575
 propagation, techniques 7600
 protected cultivation
 cultivars 1234
 cultural methods 1235
 economics 2084
 heating systems 264
 plant training 1234
 systems
 greenhouses 2103
 plastic film 4912
 pruning
 responses 2085, 6698-6699, 10327
 seasons 1232, 7617
 systems
 assessment 268, 3037, 3970, 6701
 mechanical methods 1237, 8461
 regeneration
 cultural methods 10324
 economics 10325
 reports, Australia 8189
 research, Hungary 7594
 respiration, storage 10074
 reviews 3028
 ringing, responses 4913
 roots
 development
 assessment 68, 1248, 3984, 7628
 plant growth regulators 3986
 temperature 7628
 morphology 9398
 rootstock scion relationships
 compatibility 1225, 2080, 9382-9383, 10316
 growth 3032, 7602-7604, 9381
 physiology 271, 1249
 plant nutrition 3031-3032, 3975, 5752, 7603, 8465, 9381
 quality 261, 2079, 3032, 3954
 salinity 8459
 yields 3954, 5751, 6686, 6689, 7602, 7604-7606, 8452
 rootstocks
 assessment, New Zealand 3953
 history, USA 6688
 plant nutrition 3033, 9391
 propagation, *in vitro* culture 7608, 8453
 taxonomy 2078
 salinity
 responses 8459
 rootstock scion relationships 2077
 seeds
 composition 6716, 6725, 10575
 development
 cultivars 2101, 2104
 cultural methods 5766
 environment 2101, 2104
 shade 5764
 temperature 5764
 dormancy, seed treatment 10314
 treatment 10314
 shade, responses 1253, 3991, 6696, 9396
 shoots
 biochemistry 7634
 development
 plant water relations 3985
 temperature 3985
- Grapes cont.**
 shoots cont.
 development cont.
 water stress 2096
 thinning, responses 6699
 soil fumigation 276
 soil management, systems 267, 3034, 3967-3968, 4911, 7612, 8457-8458, 9397
 soil solarization 1033
 soil structure, responses 273, 3041
 soil temperature, responses 3041
 soil types 1231
 soil water, responses 7614
 soilless culture, cultural methods 1235
 stems, composition 6693
 stomata
 histology 8479
 movement
 diurnal variation 6714
 light 6714
 physiology 8480
 physiology, pollution 1230
 storage
 disease control 4933
 physiology 10074
 quality
 cultivars 10353
 cultural methods 8488
 systems
 modified atmosphere storage 10354
 sulfur dioxide 308, 6724
 treatment 6524, 10353
 surveys, Italy 7595
 taxonomy
 chemotaxonomy 5743, 7596
 morphology 8436
 tillage, minimum tillage 3969
 translocation, source sink relations 1250, 8184
 transpiration
 light 8466
 models 9400
 plant nutrition 8466
 water stress, responses 2096, 7630, 9409, 10326
 waterlogging, rootstock scion relationships 2077
 weed control 265, 1033, 1036, 3035, 3969, 4911, 7613, 8214, 8268, 8454-8458, 9389, 9395
 conferences 1012
 weeds, surveys, Ukraine 5757
 wind, protection 6322
 winter hardiness
 assessment 5762
 cultivars 6693, 6715
 wirework 8462
 yields
 correlation 4910
 diseases 9414
 forecasting 1233
- Grapevine fanleaf nepovirus**, grapes 8467
Grapevine leafroll-associated closterovirus, grapes 8467
Grapevines (see Grapes)
Grapholium molesta, peaches 9296
Grass clippings
 utilization
 fertilizers, strawberries 5730
 mulches
 apples 1074
 avocados 4483
 horticultural crops 3720
 mangoes 9980
 raspberries 1194
 tea 10008
 soil amendments
 ornamental plants 10610
 tomatoes 10610
- Grass sward**
 as cover crops
 apples 2869, 2879, 3778, 4764, 10113
 grapes 267, 3034, 3967, 4911
 hops 9841
- Grateloupia acuminata**, propagation, techniques 5350
Gravity, responses, cress 7714
- Greece**
Asparagus, production 10509
 greenhouse crops
 climate 3722
 economics 313
Origanum vulgare, ecology 1670
Satureja thymbra, ecology 1670
 strawberries, cultivars 8427
Thymus capitatus, ecology 1670
- Green manures**
 apples 2894, 10110
Borassus flabellifer 1856
 cabbages 8496
 Chinese cabbages 1329
 chrysanthemums 334
 coffee 10925
 garlic 334
 lettuces 7695
 melons 6414
 peaches 3855
Phaseolus vulgaris 8496
 satsumas 10841
 temperate fruits 2842
 tomatoes 6014, 7806, 8496, 9586
- Greengages** (see Plums)
Greenhouse crops
 climate, Greece 3722
 disease control
Botrytis cinerea 1048
 reviews 7423
 economics
 Argentina 3723
 Greece 313
 fertilizers, reviews 7423
 nutrients, uptake, models 3725
 pest control 1909
 biological control 8224
 books 987
Frankliniella occidentalis 10068
 integrated control 8224
Liriomyza bryoniae 4230
 reviews 7423
 production
 energy conservation 1521
 Netherlands 26
 protected cultivation
 cultural methods 1521
 irrigation 2816
 reports, Belgium 5548
 soilless culture
 nutrient solutions, composition 8209
 systems, assessment 2821
- Greenhouses** (see also Protected cultivation)
 automation 1899, 6505
 carbon dioxide
 control, equipment 1038-1039
 monitoring, equipment 1037
 cladding 40-43, 45, 1041, 1456, 1903, 3724, 6502, 6507, 9138, 9142
 climate, Mediterranean region 2822
 condensation 1043
 cooling systems 1898, 1904, 9139
 corrosion protection 9144
 design 39, 44, 1901, 4686, 6501, 8216, 9141
 earth moving equipment 1042
 energy conservation 1904, 3721
 energy sources 46
 environment
 control
 models 1040, 6500, 7415, 8659
 systems 1900, 4688, 4690, 5570, 7414, 8217
 equipment 1905, 6509, 7413
 heat loss 9143
 heat transfer 1043, 9138
 heating systems 1902, 3721, 4690
 humidity 1040, 6102, 8218
 irrigation 6503, 8217
 irrigation systems 43
 light, measurement 2809
 light transmission 41, 1901, 1903, 4687, 6504, 6508, 8553, 9146
 lighting, equipment 5569, 5571, 6506
 robots 1899
 snow 44
 temperature 8218, 9141-9142
 control 4688
 thermal screens 47
 ventilation 48-49, 1906, 4685, 5567, 8217-8218

Greenhouses cont.

- water balance 9140
- water use 4689
- wind 49

Grevillea

- cultivars
 - characteristics, Australia 9642
 - vase life 8879
- cut flowers
 - senescence 9808
 - vase life 8879

Grevillea iaspicula, characteristics 2370

Grevillea pteridifolia, cut flowers, vase life 8879

Grevillea robusta

- plant residues, utilization, soil amend-
ments 9821
- planting stock, production, containers
2467
- roots, development, cultural methods
2467

Grevillea sessilis, cut flowers, vase life 8879

Grevillea whiteana, cut flowers, vase life 8879

Grevillea wickhamii, cut flowers, vase life 8879

Grevillea wilkinsonii, characteristics 2370

Grindelia camporum, cultivars, assessment,
USA 10810

Grindelia chilensis

- cultivars, assessment, USA 10810
- plant, composition 10811

Grindelia stricta, cultivars, assessment, USA
10810

Grindelia tarapacana

- leaves, composition 1702
- stems, composition 1702

Ground cover plants

- irrigation, requirements, determination
6152
- shade, responses 5160

Growing media

- aeration
 - chrysanthemums 9663
 - Dunaliella tertiolecta* 3544
- amendments
 - horticultural crops 2813
 - lettuces 2159, 10418
 - Tagetes erecta* 9691
- assessment, *Anthurium* 6107
- books 1860
- characteristics

Anthurium andraeanum 3404

container grown plants 2465

cucumbers 4130

Cupressocypris leylandii 3476

horticultural crops 51, 2814, 4679,
8210, 9148-9149

Impatiens 4307

ornamental woody plants 2464-2465

pot plants 1519

Prunus cistena 6233

tomatoes 51, 4216, 5099, 6923

tulips 7900

composition

Anthurium 687

Anthurium scherzerianum 5234

Armillaria 10588

Armillaria mellea 6977, 10589

Auricularia 3354

bedding plants 3381

Capsicum 9563

chrysanthemums 3386, 3388

Codiaeum 7920

cucumbers 5892

Cupressocypris leylandii 3475

Cupressus sempervirens 9772

Cyclamen persicum 630, 3425

Dendrobium 1606

Dieffenbachia 7920

Dieffenbachia maculata 5234

Diospyros oldhami 2655

edible fungi 2334, 6970

Ficus benjamina 8825, 10687-10688

Flammulina velutipes 1502

Forsythia intermedia 6219

Hericium erinaceus 3359

Hibiscus syriacus 6219

horticultural crops 2813

Impatiens 4307

Lentinula edodes 6069, 7853, 8730

Growing media cont.**composition cont.**

- Lentinus lepidus* 6070
- lettuces 2162
- Monstera deliciosa* 10691
- mushrooms 567, 2344, 3345, 3347
- Opuntia microdasys* 684
- Orchidaceae 9751
- ornamental plants 6081, 9646
- ornamental woody plants 1617, 3466
- peaches 4827
- Pelargonium hortorum* 3399
- persimmons 2655
- Phalaenopsis* 1606
- Pleurotus* 578, 4272, 6072, 6982,
9635
- Pleurotus florida* 1506
- Pleurotus ostreatus* 6074, 6986,
10596
- Pleurotus sajor-caju* 580, 6075-6076,
9637, 10599-10600
- poinsettias 4393
- Prunus cistena* 6233
- Ravenia rivularis* 687
- roses 6197
- strawberries 10294
- Swietenia mahagoni* 5296
- tomatoes 491, 10547
- Volvariella esculenta* 6078
- Volvariella speciosa* 6079
- Volvariella volvacea* 1508

contaminants, ornamental plants 3375

microorganisms

- Caladenia latifolia* 4372
- Diuris magnifica* 4372
- mushrooms 2343, 2345

pH

- Arachniodes adiantiformis* 8818
- bedding plants 9655
- chrysanthemums 3388
- Impatiens* 7088
- Impatiens walleriana* 7876
- lettuces 2162
- ornamental plants 6081
- Pentas lanceolata* 4426
- poinsettias 7088
- Prunus cistena* 6233
- radishes 6801
- spinach 6801
- tomatoes 8818

plant nutrition

- grapes 9381
- tomatoes 9593

porosity

- chrysanthemums 3389
- Prunus cistena* 6233

production

- horticultural crops 6511
- Pleurotus ostreatus* 6985

regeneration, figs 2942

sterilizing, cucumbers 1357

temperature

- Alstroemeria* 1570
- mushrooms 9629
- roses 8861
- strawberries 5728

utilization, *Pleurotus* 6983

volume, horticultural crops 2813

water relations

- Agaricus bitorquis* 3346
- Capsicum* 3236
- chrysanthemums 3387
- mushrooms 566, 3346
- Prunus cistena* 6233

weed moulds

- edible fungi 571
- Pleurotus* 10593

wetters, *Anthurium andraeanum* 3404

Growth chambers

- design 5568
- light, measurement 2809
- lighting, equipment 1897, 9131

Growth regulators (see Plant growth regulators)

benzyladenine, *in vitro* culture, *Silybum
marianum* 6290

thidiazuron, *in vitro* culture, *Silybum
marianum* 6290

Growth retardation (see also Dwarfing)

cultural methods, mangoes 922

Growth retardation cont.**herbicides**

- Alcea rosea* 6085
- Chrysanthemum* 6085
- Hibiscus moscheutos* 6085
- Tanacetum coccineum* 6085

plant growth regulators

- apples 1080, 3782, 4771, 6577, 7472,
8276
- apricots 3809, 9236
- Aster novi-belgii* 1549
- Barleria cristata* 5278
- Bougainvillea spectabilis* 7075
- cherries 7519
- chrysanthemums 4285
- Citrus* 5366
- Forsythia intermedia* 2501
- Fuchsia* 7971
- Hydrangea macrophylla* 8850
- Lochroma cyaneum* 4420
- Kalmia latifolia* 7091
- Lantana camara* 6228
- lawns and turf 10668
- Litchi* 1747, 4539
- Malus hupehensis* 1105
- mangoes 9975, 9978
- Murraya paniculata* 7115
- nectarines 3859
- ornamental woody plants 2468
- peaches 3860, 6619, 10213, 10215
- pears 10233
- poinsettias 1627, 3485, 4393
- Rhododendron* 7091
- Rhododendron obtusum* 5266
- Rhododendron simsii* 6193
- tomatoes 8663, 9587

Grubbing**techniques**

- black currants 9341
- red currants 9341
- tea 10009

Guadeloupe**grapes**

- cultivars 1232
- production possibilities 1232

Guatemala

- Pouteria sapota*, research 11026
- sapodillas, research 11026

Guavas

- air layering
 - techniques 1820
 - treatment 2715
- cropping systems, agroforestry 824
- cultivars

assessment

- Brazil 1819, 8145
- India 7316

pest resistance 2714

ripening 9970

disease control

- Phomopsis psidii* 916
- Phytophthora nicotianae* var. *parasitica* 10943

fertilizers

- nitrogen 914, 4616, 5493, 6426
- phosphorus 4616
- potassium 5493, 6426
- sulfur 6425

flowers, development, morphology 4618

forcing 10944-10945

fruits

- biochemistry, maturity 6427
- browning, storage 7318
- composition 6371, 7832
- development

- assessment 3734
- biochemistry 918

quality

- cultivars 7316
- cultural methods 10946
- fertilizers 5493
- maturity 6426

ripening

- biochemistry 918
- storage 2718

thinning

- economics 1822
- responses 1822

harvesting, harvesting date, assessment
9970

intercropping, mangoes 7324

Guavas *cont.*
irrigation, responses 10941
leaves
 areas, assessment 4617
 biochemistry 1773
 composition 2717
nutrients
 uptake
 fertilizers 7317
 salinity 9050
pest control
 Bactrocera dorsalis 917
 Nematoda 3726
 Planococcus citri 3674
pests, surveys, Côte d'Ivoire 4571
plant growth regulators, gibberellic acid, responses 1822, 4616
plant nutrition
 iron 6425
 manganese 6425
 nitrogen 8147
 zinc 6425
planting
 spacing 9048
 systems 10905
pollen
 germination, tests 4618
 viability, tests 4618
pollution, sodium chloride 915
processing, residues 5522, 7832
production possibilities
 Argentina 5357
 Malaysia 9130
 South Africa 2578
pruning
 responses 2716, 9049
 seasons 2716
 systems, assessment 8146, 9048
regeneration, topworking 1821
rootstock scion relationships, growth 6424
salinity, responses 9050
seedlings, development, cultural methods 7317
seeds, composition 7832
stooling
 responses 10940
 techniques 9957, 10938-10939
storage
 diseases 2718
 physiology 2718
 quality
 assessment 1823
 maturity 2718
 plant growth regulators 10947
 plant nutrition 10947
 temperature 2718
 treatment 6524, 7318, 9971
 wrappings 9971
 water stress, responses 10942
Guayule (see *Parthenium argentatum*)
Guignardia bidwellii, grapes 3980, 8470
Guignardia camelliae, tea 3688
Guilielma (see also *Bactris*)
Guinea, onions, production 5800
Guineafowls, control, of *Phlyctinus callosus*, apples 7487
Gums, metabolism, plant growth regulators, tulips 7901
Gundelia tournefortii
 wild plants
 conservation, Israel 5853
 utilization, Israel 5853
Guzmania lingulata, pot plants, storage 10607
Gynema sylvestre
 in vitro culture, propagation, micropropagation 8923
 leaves, composition 10812
Gymnocalycium
 books 1867
 plant, composition 6159
Gymnocladus dioica, seeds, composition 734
Gypsophila
 cut flowers
 preservatives 9650
 production, cultural methods 613
 responses
 silver 9686
 sugars 9686
 vase life 9650
Gypsophila *cont.*
 cut flowers *cont.*
 water relations 9687
 seeds, morphology 2392
 soiless culture, nutrient solutions, composition 613
 taxonomy, morphology 2392
Gypsophila elegans
 flowers, development, cultural methods 5185
 pest control, *Liriomyza huidobrensis* 3415
 photoperiodism 5185
Gypsophila paniculata
 cut flowers
 development
 plant growth regulators 4303
 temperature 4303
 production
 cultural methods 3416
 Israel 4302
 in vitro culture
 disorders, vitrification 10628-10629
 responses, humidity 6112
 leaves, histology 10628
 plant nutrition
 calcium 6112
 nitrogen 6112
 phosphorus 6112
 potassium 6112
 planting, planting date 3416
 protected cultivation, temperature 3416
Gypsum
 utilization
 soil amendments
 avocados 3571
 mushrooms 2349
 oranges 8948
Gyransoidea tebygi, control, of *Rastrococcus invadens*, mangoes 1829
Habenaria, taxonomy, nomenclature 7056
Haemanthus katherinae, seeds, cytology 660
Haemanthus multiflorus, cultural methods, China 1573
Haematococcus pluvialis
 in vitro culture, metabolites, production 1703
 products, carotenoids 5351
Haematoxylum brasiletto, plant, composition 6254
Haematoxylum campechianum, plant, composition 6254, 8896
Hail
 injuries
 fruit crops 4717
 grapes 7611
 Hevea 9073
 vegetables 315
 protection
 apples 3775
 bananas 9933
 stone fruits 1057
 resistance, cultivars, grapes 7611
 responses, grapes 6701
Haiti, ethnobotany 819
Halesia carolina, planting stock, production, cultural methods 6185
Halticus tibialis, cabbages 3146
Halyomorpha halys, persimmons 10895
Hamamelis
 cultivars, ornamental value 4417
 species, ornamental value 4417
Handling
 economics, cherries 166
 equipment
 cashews 889
 Gladiolus 9702
 Orbignya phalerata 773
 tomatoes 1475
 injuries
 bananas 7275
 cherries 7522-7523
 grapefruits 5401
 kiwifruits 8400
 onions 9448
 tea 10017
 mechanization, mandarins 2622
 research
 fruit crops 10073
 vegetables 10073
Handling *cont.*
 techniques
 almonds 6535
 avocados 4481
 bananas, Ghana 5461
 cherries 7521
 cocoa 7285
 coffee 6405
 fruit crops 4709
 books 10043
 Vietnam 4700, 4702
 hazelnuts 6535
 horticultural crops, books 9115
 mangoes 10972
 ornamental plants, Mexico 5161
 peaches 10221
 pears 8371
 vegetables 4709
 Vietnam 4700, 4702
 walnuts 6535
Haplopappus gracilis, research, space science 8613
Haplothrips nigricornis, apples 2903
Hardenbergia, cultivars, characteristics, Australia 9642
Harmonia axyridis, control, of *Macrosiphum rosae*, roses 6202
Harmonia dimidiata
 control
 of *Aphis gossypii*, vegetables 7649
 of *Aphis nasturtii*, vegetables 7649
 of *Myzus persicae*, vegetables 7649
Harvesting
 desiccants, onions 4956-4957
 equipment
 apples 1975, 5624, 8308
 Asparagus 3026, 6882
 bananas 8125
 cabbages 6796
 Capsicum 7780
 cherries 8338
 Chinese cabbages 8555
 Citrus 6337
 cucumbers 6033
 fruit crops 7436
 Gladiolus 9702
 gooseberries 9343
 grapes 307, 4932
 hazelnuts 7525
 horticultural crops 6526
 melons 6422
 mushrooms 6975, 8229
 olives 6362, 8987
 Orbignya phalerata 773
 plums 1975
 raspberries 9347
 small fruits 6642
 strawberries 3026, 6678
 tomatoes 2316, 6033
 vegetables 5768, 6741
 frequency
 Coriandrum sativum 5300
 Hevea 937, 947, 5509
 Macadamia 6354
 okras 9553
 harvesting date
 assessment
 Angelica archangelica 8021
 apples 1120, 4733, 4794, 4801, 6584, 7497, 9205, 9207-9211, 9213-9215, 9222, 10146, 10167
 conferences 9122
 Artemisia annua 8023
 avocados 808, 5359
 beetroots 345, 4968
 blackberries 4877
 Capsicum 3246, 9567
 carrots 1480
 Chamomilla recutita 7162, 8026
 cherries 10194
 cucumbers 2220
 Cucurbita 3192
 Eucheuma isiforme 10808
 grapes 306, 3999
 guavas 9970
 Hevea 10002
 Jerusalem artichokes 2152
 kiwifruits 8401
 nectarines 3881-3882, 9298
 Ocimum 8015

Harvesting cont.

harvesting date cont.
assessment cont.

Ocimum gratissimum 10762
olives 9913
onions 5828, 6760
oranges 5403
Origanum vulgare 2561
Paeonia lactiflora 2562
Panax pseudoginseng 6286
passion fruits 4556
peaches 181-182, 3881-3882
pears 194, 1168, 2974, 4845,
9310-9312, 10146, 10243
conferences 9122

pecans 200

Phaseolus vulgaris 1375

plums 7553, 8386

pomegranates 2662

quinces 4861

strawberries 3932

tomatoes 6951, 7831, 8692

Tussilago farfara 2568

Vigna unguiculata 6876

walnuts 7556

cultivars

apples 1977, 1983, 9208

grapes 4000

cultural methods, grapes 3966

forecasting

apples 1116, 9206, 9212

cucumbers 5924

grapes 3065

pears 2973

plant growth regulators

globe artichokes 4067

strawberries 7590

sowing date, globe artichokes 4067

injuries

chestnuts 3823

raspberries 9347

Vaccinium corymbosum 10284

models, *Macadamia* 6354

techniques

assessment

Amaranthus mantegazzianus 6054

apples 10147

avocados 3578

grapes 10352

Hevea 9081

Hippophae rhamnoides 5741

Malva verticillata 2559

roses 8864

tea 2769, 9100

walnuts 7556

mechanical harvesting

apples 2916, 4795-4796, 10147

apricots 6596

bananas 8125

cherries 6602

chestnuts 3823

Citrus 6328

fruit crops 6525, 7436

grapes 3068

hazelnuts 5645-5646

mangoes 2723

mushrooms 2350

nut crops 5588

olives 8981

strawberries 2053

tea 9099, 9101

tomatoes 6034

Vaccinium corymbosum 10284

once over harvesting, tomatoes 542

work study

fruit crops 6525

mushrooms 2340

Hauptidia maroccana, tomatoes 4231

Haworthia attenuata, *in vitro* culture, propa-

gation, micropropagation 4360

Haworthia coarctata, *in vitro* culture, propa-

gation, micropropagation 4360

Haworthia heidelbergensis, geographical

distribution 10690

Haworthia limifolia, *in vitro* culture, propa-

gation, micropropagation 4360

Haworthia magnifica, geographical distribu-

tion 10690

Hay, utilization, growing media, *Pleurotus*

ostreatus 7854, 8735

Hazelnuts

cover crops, responses 2940

cultural methods, UK 3824

fruits, development, assessment 8238

grafting

rootstocks, assessment 1139

unions, treatment 9271, 10200, 10716

handling, techniques 6535

harvesting

equipment 7525

techniques, mechanical harvesting

5588, 5645-5646

in vitro culture, somaclonal variation

5644

leaves, areas, assessment 3825

mycorrhizas 5152, 7856

pest control, arthropods 1140

plant residues, utilization, growing media

6075

plant training, systems 3747

reproduction, physiology 8342

rootstock scion relationships, compatibil-

ity 1139

storage

biochemistry 10201

temperature 10201

suckers, control, herbicides 8341

Heat (see also Temperature)

injuries, lettuces 4080

resistance

cultivars, tomatoes 1434, 6907

physiology

cucumbers 9516

lettuces 4080

responses

Actinidia eriantha 10268

cabbages 10452

Capsicum 6000

cucumbers 9432

horticultural crops 6523

kiwifruits 10268

okras 9432

peas 3216, 7756

Phaseolus vulgaris 6851

Rhododendron 10721

satsumas 1737

tomatoes 7807, 9432

tolerance

cabbages 389

Chinese cabbages 5873

cucumbers 5027

longans 5422

mangoes 5422

melons 9037

tomatoes 531, 3254, 5085

treatment, tomatoes 2317

Heavy metals

composition

carrots 10468

cucumbers 10468

Talinum triangulare 6968

vegetables 5580

deposition, dates 850

determination

edible fungi 7851

mushrooms 7851

metabolism

cultivars, carrots 550

nitrogen, culinary herbs 9826

pollution, carrots 550

toxicity

Mentha 5311

Vicia faba 2240

uptake, vegetables 5771

Hebe

plant nutrition, trace elements 3505

soilless culture, growing media 3505

Hebe tairawhiti, taxonomy, new taxa 8880

Hedera

books 5534

disease control, Poland 3482

pest control, Poland 3482

Hedera helix

cultivars

characteristics, USA 1624

nomenclature 1623

cuttings, treatment 6548

leaves, ultrastructure 4391

photosynthesis, biochemistry 7952

Hedera helix subsp. *canariensis*

photosynthesis, measurement 1912

Hedera helix subsp. *canariensis* cont.

pot plants, storage 10607

Helianthemum, ornamental value 10735

Helianthus (see also Jerusalem artichokes)

Helichrysum bracteatum, flowers, colour,

biochemistry 8774

Heliconia, cut flowers, production possibili-

ties, Mauritius 10605

Heliconia psittacorum, *in vitro* culture, orga-

nogenesis 10656

Heliconia psittacorum × *Heliconia*

spathocircinata

cut flowers

development

light 7029

temperature 7029

Helicoverpa armigera

Citrus 9891

peas 3214

tomatoes 7788, 9599, 10554

Helicoverpa zea

Capsicum 1417

tomatoes 6020

Heliopsis longipes, taxonomy, chemotaxo-

nomy 6273

Heliothrips haemorrhoidalis, avocados 8935

Helleborus

flowers, anatomy 6113

plant, development, morphology 10657

taxonomy, morphology 614

Helleborus dumetorum, cultural methods,

UK 6113

Hellula undalis, cabbages 1337, 3146, 7711

Helopeltis theivora

cocoa 2682

tea 11011

Hemerobius pacificus

control

of *Acizzia uncatoides*

Acacia 729

Albizia 729

Hemerocallis

buds, composition 657

disease control

Phytophthora 10067

Pythium 10067

flowers, senescence 4304

pest control

Contarinia quinquenotata 2393

Meloidogyne incognita 5186

Ogma serratum 5186

Rotylenchulus reniformis 5186

Scutellonema brachyurus 5186

translocation, senescence 4304

Hemerocallis citrina

plant, composition 2394

translocation, source sink relations 1552

Hemerocallis fulva, plant, composition 6522

Hemidesmus indicus, *in vitro* culture, propa-

gation, micropropagation 6284

Hemileia vastatrix, coffee 900, 2693, 2695,

3661, 5476, 5481, 8140, 9030, 10925,

10927

Hemiptera

aubergines 484

kiwifruits 4868

ornamental plants 3080

vegetables 3080

Hendecasis duplifascialis, *Jasminum mul-*

tiflorum 9776

Henria psalliotae, mushrooms 4270

Heracleum mantegazzianum, allelopathy

8211

Heracleum moellendorffii, wild plants, edible

species 3069

Herbicides

aclonifen, injuries, *Capsicum* 7773

alachlor

injuries

lawns and turf 9720

peas 7757

responses, onions 9447, 10388

tolerance, radishes 3156

alloxymid, injuries, garlic 6746

amitrole

responses, *Capsicum* 4193

translocation, *Cyclamen persicum* 633

atrazine

injuries

Herbicides cont.

atrazine cont.
metabolism, tulips 7902
persistence, *Citrus* 1721
responses, lawns and turf 2422
translocation, *Cyclamen persicum* 633
aziprotyrine, injuries, *Origanum vulgare* 9833
benfluralin, tolerance, lawns and turf 8807, 9720
bensulide, responses, lawns and turf 7033
bentazone
injuries
garlic 6746
lawns and turf 668
ornamental woody plants 8844
tolerance, *Melissa officinalis* 4461
2,2-bipyridyl, responses, peas 9539
bromacil
persistence, *Citrus* 1721
responses
lemons 1722
oranges 1722, 6325
bromoxynil, translocation, *Cyclamen persicum* 633
chlorsulfuron
injuries
cherries 161
olives 7244
peas 439, 8606
Phaseolus vulgaris 8606
Vicia faba 8606
responses, vegetables 3082
chlorthal-dimethyl, tolerance, lawns and turf 9720
chlorthiamid, responses, hazelnuts 8341
clomazone
injuries
melons 9041
watermelons 9041
tolerance
pumpkins 2201
squashes 2201
clopypalid
injuries
cabbages 8548
ornamental woody plants 2471-2472, 8844
cyanazine, tolerance, lawns and turf 9720
2,4-D
application date, fruit crops 8214
determination, tomatoes 9583
injuries
cucumbers 9506
fruit crops 8214
ornamental herbaceous plants 8745
persistence, fruit crops 8214
responses
horticultural crops 3720
onions 10388
translocation, *Cyclamen persicum* 633
residues, *Citrus* 3612
dalapon, translocation, *Cyclamen persicum* 633
dazomet, tolerance, vegetables 4011
dicamba
injuries
lawns and turf 9720
ornamental woody plants 2472
responses, horticultural crops 3720
dichlobenil
injuries
ornamental woody plants 2471
Salvia officinalis 9833
dinitramine, injuries, lettuces 7687
dinoseb, responses, mangoes 922
diquat, tolerance, onions 338
dithiopyr
responses, lawns and turf 2422
tolerance
bedding plants 2377
lawns and turf 6150, 8807, 9720
diuron
injuries
cucumbers 6814
kiwifruits 9335
lawns and turf 9720
olives 7244
Origanum vulgare 9833
persistence, *Citrus* 1721

Herbicides cont.

diuron cont.
responses
grapes 7128
lemons 1722
oranges 1722
Washingtonia robusta 7128
translocation, *Cyclamen persicum* 633
ethalfluralin, injuries, *Capsicum* 7773
ethofumesate, injuries, lawns and turf 6141
fenoxaprop, injuries, lawns and turf 6141
flazasulfuron, responses, lawns and turf 7033
fluazifop-P, injuries, garlic 6746
fluchloralin
injuries, cucumbers 9506
responses, onions 9447
flurochloridone
tolerance
Coriandrum sativum 8500
Petroselinum crispum 8500
vegetables 8500
fomesafen, injuries, *Capsicum* 7773
glufosinate
injuries
grapes 278
ornamental woody plants 2471
responses, carrots 6957
glyphosate
injuries
avocados 800
olives 7243
ornamental woody plants 2471
tomatoes 5104
Vicia faba 5104
metabolism, tomatoes 3297
physiology, tomatoes 3299
responses
hazelnuts 8341
oranges 6325
tolerance, onions 338
toxicity, tomatoes 3298
translocation, *Cyclamen persicum* 633
halosulfuron, injuries, ornamental woody plants 8845
imazaquin
injuries, ornamental woody plants 2472
responses, vegetables 3082
imazethapyr, responses, vegetables 3082
isoxaben
injuries
Alcea rosea 6085
Capsicum 7773
Leucanthemum maximum 6085
ornamental woody plants 2471, 7071
responses, lawns and turf 2422
tolerance
Achillea millefolium 6085
Aquilegia 6085
bedding plants 2377
Coreopsis grandiflora 6085
lawns and turf 9720
Leucanthemum maximum 6085
lenacil, residues, spinach 3108
linuron
injuries
Capsicum 7773
cucumbers 6814
garlic 6746
lawns and turf 9720
persistence, vegetables 3071
tolerance
radishes 3156
vegetables 3071
MCPA
application date, fruit crops 8214
application methods, *Citrus* 8059
injuries
Citrus 8059
fruit crops 8214
persistence, fruit crops 8214
responses, hazelnuts 8341
translocation, *Cyclamen persicum* 633
mecoprop, responses, horticultural crops 3720
metazachlor, application date, cabbages 2181

Herbicides cont.

methabenzthiazuron, injuries, *Vicia faba* 4166
methyl bromide, responses, oranges 5374
methylthiotertbutylaminocyclopropylamino triazine, injuries, *Valeriana locusta* 3328
metolachlor
injuries
cabbages 8548
kiwifruits 9335
lawns and turf 9720
responses, lawns and turf 2422
tolerance, *Gardenia jasminoides* 6221
metribuzin
injuries
Capsicum 7773
lawns and turf 9720
Origanum vulgare 9833
metsulfuron
responses, vegetables 3082
tolerance, lawns and turf 9720
MON 12051, injuries, ornamental woody plants 8844
monensin
surfactants, okras 6889
tolerance, okras 6889
monuron
responses
lemons 1722
oranges 1722
mycoherbicides, tolerance, strawberries 2063
napropamide
persistence
beetroots 8513
spinach 8513
responses, Chinese cabbages 6785
tolerance, radishes 3156
norflurazon
injuries
Asparagus 9544
peas 8606
Phaseolus vulgaris 8606
Vicia faba 8606
oryzalin
injuries
Alcea rosea 6085
Chrysanthemum 6085
Hibiscus moscheutos 6085
kiwifruits 9335
Origanum vulgare 9833
Rudbeckia hirta 6085
Tanacetum coccineum 6085
tolerance
Achillea millefolium 6085
Aquilegia 6085
bedding plants 2377
Coreopsis grandiflora 6085
lawns and turf 6150, 8807, 9720
Leucanthemum maximum 6085
oxadiazon
injuries
cucumbers 9506
lettuces 7687
onions 3091
responses, lawns and turf 2422
tolerance
Gardenia jasminoides 6221
lawns and turf 6150
oxyfluorfen
injuries
broccoli 1327
cabbages 8548
cucumbers 9506
garlic 6746
kiwifruits 9335
responses
lawns and turf 7033
onions 9447
tolerance
bedding plants 2377
garlic 4949
paraquat
injuries
ornamental woody plants 2471
Phaseolus vulgaris 1379
tomatoes 9578
responses, carnations 7864

Herbicides cont.

- pendimethalin
 - injuries
 - cabbages 8548
 - lettuces 7687
 - Trigonella corniculata* 8617
- persistence, vegetables 3071
- responses
 - Chinese cabbages 6785
 - lawns and turf 2422
- tolerance
 - bedding plants 2377
 - lawns and turf 6150, 9720
 - vegetables 3071
- pentachlorophenol, responses, mangoes 922
- phenmedipham, residues, spinach 3108
- prodiamine
 - responses, lawns and turf 8806
 - tolerance, lawns and turf 6150, 9720
- propachlor
 - persistence
 - beetroots 8513
 - spinach 8513
 - tolerance, onions 338
- propazine, tolerance, lawns and turf 9720
- propyzamide
 - injuries
 - lettuces 7687
 - ornamental woody plants 2471
 - persistence
 - beetroots 8513
 - spinach 8513
 - tolerance, chicory 358
- pyridate, injuries, cabbages 8548
- pyrithiobac, tolerance, lawns and turf 9720
- quinclorac
 - injuries
 - lawns and turf 9720
 - ornamental woody plants 2472
 - tolerance, lawns and turf 2421
- quinonamid, injuries, *Valerianella locusta* 3328
- rimsulfuron
 - injuries, *Capsicum* 7773
 - tolerance, tomatoes 3261
- SAN 9789, responses, *Capsicum* 4193
- sethoxydim, injuries, garlic 6746
- simazine
 - injuries
 - kiwifruits 9335
 - olives 7243
 - Origanum vulgare* 9833
 - Salvia officinalis* 9833
 - persistence, *Citrus* 1721
 - responses
 - lemons 1722
 - oranges 1722
- terbacil
 - responses
 - lemons 1722
 - oranges 1722
- terbumeton, persistence, *Citrus* 1721
- terbuthylazine, persistence, *Citrus* 1721
- terbutryn
 - persistence, *Citrus* 1721
 - tolerance
 - Coriandrum sativum* 8500
 - Petroselinum crispum* 8500
 - vegetables 8500
- thiazopyr, responses, olives 7245
- thiobencarb, injuries, cucumbers 9506
- tri-allate
 - injuries
 - peas 8606
 - Phaseolus vulgaris* 8606
 - Vicia faba* 8606
- triclopyr
 - application methods, lawns and turf 1581
 - injuries
 - lawns and turf 6151
 - ornamental herbaceous plants 8745
 - ornamental woody plants 2472
 - tomatoes 1581
- trifluralin
 - injuries
 - Alcea rosea* 6085
 - cabbages 8548

Herbicides cont.

- trifluralin cont.
- injuries cont.
 - lettuces 7687
 - Leucanthemum maximum* 6085
- persistence, *Citrus* 1721
- responses
 - Betula nigra* 5280
 - Liriodendron tulipifera* 7974
 - oranges 6325
 - Prunus yedoensis* 5280
 - Quercus rubra* 7974
- tolerance
 - Achillea millefolium* 6085
 - Aquilegia* 6085
 - bedding plants 2377
 - Coreopsis grandiflora* 6085
 - lawns and turf 9720
 - Leucanthemum maximum* 6085
- UCC-C4243
 - tolerance
 - peas 9492
 - radishes 9492
 - vegetables, books 2109
- Hericium erinaceus***
 - biochemistry 574
 - composition 1503
 - growing media, composition 3359
 - nutritive value 1497
- Hermodactylus tuberosus***, flowers, colour, variation 8793
- Hesperaloe***, species, characteristics, USA 6160
- Hesperethusa crenulata***, *in vitro* culture, somatic embryogenesis 8899
- Heteropeza pygmaea***, mushrooms 4270
- Heterorhabditis***
 - control
 - of *Amyeloides transitella*, almonds 3754
 - of *Anarsia lineatella*, almonds 3754
 - of *Byctiscus betulae*, grapes 10340
 - of *Otiorynchus*
 - ornamental plants 589-590
 - Rhododendron* 590
- Heterorhabditis bacteriophora***
 - control
 - of *Brevicoryne brassicae*, Chinese cabbages 4105
 - of *Cyclocephala hirta*, Chinese cabbages 4105
 - of *Diabrotica undecimpunctata undecimpunctata*, Chinese cabbages 4105
 - of *Diaphania hyalinata*, squashes 406
 - of *Diaprepes abbreviatus*, *Citrus* 8073
 - of *Otiorynchus sulcatus*, Chinese cabbages 4105
- Heterorhabditis zealandica***, control, of *Cosmopolites sordidus*, bananas 9938
- Heuchera***
 - cuttings, production, techniques 2395
 - shoots, development, plant growth regulators 2395
- Hevea***
 - air layering, techniques 9069
 - bark, anatomy 9078
 - books 2785
 - budding, techniques 2738-2739
 - climate, Liberia 1844
 - cover crops, responses 3637, 9074
 - cropping systems
 - agroforestry 2744
 - intercropping 939, 6441
 - cultivars
 - assessment, India 941
 - clones 937, 10000
 - disease control
 - Microcyclus ulei* 7348
 - Rigidoporus lignosus* 9077, 10995
 - disorders
 - brown bast 943
 - decline 9076
 - tapping panel dryness 4641, 9082, 10000
 - ecology, Sri Lanka 10988
 - economics, Indonesia 6439
 - fertilizers 9076
 - nitrogen 942
 - phosphorus 4639
 - potassium 2748

Hevea cont.

- fertilizers cont.
- zinc 4639
- hail, injuries 9073
- in vitro* culture
 - culture media 10992
 - explants
 - sources 2740, 5506
 - sterilizing 2740
 - organogenesis 10993
 - propagation, micropropagation 2741
 - somatic embryogenesis 30, 2742, 10992
 - techniques 30, 7260
- intercropping, tea 6441
- irrigation, requirements, determination 941
- laticifers
 - pressure 6446
 - ultrastructure 943
- leaves
 - biochemistry 6448
 - morphology 9079
 - vascular system 2749
- mulching
 - materials 9075
 - responses 2747
- mycorrhizas 877
- nutrients, requirements, analysis 7261
- parasitic plants
 - Cuscuta campestris* 6444
 - Taxillus chinensis* 6445
- pesticides, responses 9076
- photosynthesis
 - diurnal variation 2745
 - morphology 9079
 - shade 2745-2746
- plant
 - biochemistry 945-946, 1845, 1913, 2750, 4642, 5508, 6447, 8162, 10998
 - development, spacing 9071
 - physiology 3683
- plant embryos, anatomy 9067
- plant water relations
 - measurement 6446
 - physiology 2749
- planting
 - spacing 2743, 9071
 - systems 9072
- planting stock
 - production, cultural methods 9070, 10994
 - types, assessment 9068
- processing, residues 949, 3637
- production
 - environmental impact, reviews 9998
 - history 6530
 - India 9999
 - books 2788
 - Malaysia 10989
 - surveys 4638
 - Thailand 1843
- production possibilities, Thailand 9066
- products
 - building materials 2751
 - oils 948
 - proteins 949
- rain, protection 9081
- research, Malaysia 6440
- roots
 - development
 - assessment 5507, 10997
 - physiology 10001
 - propagation 2741
- seedlings, development, biochemistry 10990
- seeds
 - biochemistry, storage 948
 - development, biochemistry 10990
 - germination
 - anatomy 9067
 - growing media 10991
 - temperature 10991
 - storage, seed treatment 10991
- shade, responses 2746
- shoots
 - abnormal development 944
 - anatomy 9073
 - biochemistry 9080
 - development, assessment 5507, 10996

Hevea *cont.*
soil types 2748
tapping 937, 947, 5509, 9081, 10002
weed competition 10002
weed control 940, 6442-6443, 9075
wounds, responses 4640

Hibiscus (see also Okras)
soil amendments 9428

Hibiscus abelmoschus (see *Abelmoschus moschatus*)

Hibiscus cannabinus, plant residues, utilization, growing media 491

Hibiscus moscheutos
herbicides, injuries 6085
pollination, biology 7111

Hibiscus mutabilis, pest control, *Aphis gossypii* 1647

Hibiscus rosa-sinensis
cut flowers, vase life 4419
cuttings, treatment 2504
electrical properties
measurement 8848
physiology 4418
fertilizers 6224
potassium 1648
flowers, physiology 4418
irrigation, frequency 6224
photosynthesis, fertilizers 1648
pollen, morphology 2503
respiration, temperature 1649
roots, physiology 1649
transpiration, fertilizers 1648

Hibiscus sabdariffa
cultural methods, Caribbean 10813
fertilizers, nitrogen 9865
plant growth regulators
IBA, responses 6297
mepiquat, responses 6297
spacing 9865

Hibiscus syriacus
flowers
development
histology 735
morphology 6225
growing media, composition 6219
in vitro culture
culture media 10736
propagation, micropropagation 10736

High density planting
cultivars, cherries 5637
cultural methods
avocados 3565
Macadamia 2639
economics, apples 92
plant training, apples 4748, 4768, 5602
pruning
apples 7464
avocados 3565
guavas 2716
rootstocks
apples 4748, 7464, 8251
grapefruits 6314
olives 6360
oranges 6314
spacing, apples 93
systems, apples 1947, 3774

Himanthalia elongata, nutritive value 3325

Hippeastrum
cultural methods, China 1574
cut flowers
preservatives 1575
storage 1575
propagation, techniques 1574

Hippeastrum vittatum
plant growth regulators
abscisic acid, responses 2413
benzyladenine, responses 2413
gibberellic acid, responses 2413
IAA, responses 2413
proline, responses 2414
pollen
germination
plant growth regulators 2414
temperature 2414
tubes
development 2413, 2415, 10658
plant growth regulators 2413
ultrastructure 658

Hippodamia convergens, control, of *Aphis gossypii*, chrysanthemums 10620

Hippophae, seeds, composition 2525

Hippophae rhamnoides
cultivars
characteristics, Russia 2071-2072
clones 4386
cuttings, cultural methods 4862
fruits, composition 6680
harvesting, techniques, assessment 5741
in vitro culture
culture media 7592
propagation, micropropagation 7592
wild plants, edible species 1917

Holcoglossum amesianum, cultural methods, USA 3462

Holcoglossum flavescens, cultural methods, USA 3462

Holcoglossum kimballianum, cultural methods, USA 3462

Holcoglossum quasipinifolium, cultural methods, USA 3462

Holcoglossum subulifolium, cultural methods, USA 3462

Hollies (see *Ilex*)

Holmskioldia sanguinea, characteristics 7972

Holotrichia longipennis, apples 1962

Holotrichia serrata, cashews 7280

Homalomena, *in vitro* culture, culture media 3376

Homoptera, poinsettias 3486

Honduras, bananas, cultivars 8116

Hong Kong, ornamental woody plants, conservation 2459

Hop latent viroid, hops 6270

Hoplocampa, peaches 6621

Hoplocampa minuta, fruit crops 7479

Hoplocampa testudinea, apples 1095, 2904

Hoplalaimus, lawns and turf 670

Hops
cones, composition 6271
cover crops, responses 9841
cultivars
characteristics, USA 4305-4306
ornamental value 4305-4306
disease control, hop latent viroid 6270
in vitro culture, organogenesis 10768
insecticides
persistence 3536
residues 8909
irrigation, requirements, determination 5562
leaves, areas, assessment 10769
pest control
Germany 3534
Neoseiulus fallacis 8908
Otiorynchus ligustici 3535
Tetranychus urticae 1678
plant
development, phenology 4447
habit, staking 3533
weed control 9841
yields, diseases 10770

Hordeum jubatum, dried flowers, production 9654

Hordeum vulgare, plant extracts, application, *Lentinula edodes* 8733

Horseradish (see *Armoracia rusticana*)

Horticultural crops
characteristics, West Africa, books 3698
cold, resistance, plant growth regulators, reviews 8208
conferences 4669
cropping systems, agroforestry 5554, 6490, 8197
cultivars, nomenclature, books 3703
cultural methods
arid regions, reviews 8220
containers 1896
India 10066
Netherlands 8202
Switzerland 6922
cuttings, production, techniques 33
disease control 9151
bibliographies 7420
reviews 7423
economics
conferences 1010
UK 6493
USA 1024
ethnobotany 4451
fertilizers
books 8181

Horticultural crops *cont.*
fertilizers *cont.*
reviews 7423
sulfur 8221-8222
growing media
amendments 2813
characteristics 51, 2814, 4679
composition 2813
production 6511
handling, techniques, books 9115
harvesting, equipment 6526
heat, responses 6523
history, Mauritius 6492
in vitro culture, propagation, micropropagation 34, 8206
information services, Germany 3715, 8198
irrigation
carbon dioxide, application 7408
fertigation, reviews 8220
leaves, vascular system 9153
manures 9151
marketing, USA 1023
mechanically induced stress, responses, reviews 5572
new journals, India 6468
organic culture 1036
packing, techniques, conferences 9124
pest control
bibliographies 7420
books 997
Germany 2832
Nigeria, books 7387
reviews 7423
Thysanoptera, conferences 7396
West Africa 19
pesticides, residues 7421
photosynthesis
measurement 1053
photoinhibition 4695
plant
development
assessment 4684
models 9134
injuries, ultraviolet radiation 8207
plant growth regulators
ethylene, physiology, reviews 5573
forchlorfenuron, responses 7429
growth retardants, biochemistry 7425
jasmonic acid, responses, reviews 7430
methyl jasmonate, responses, reviews 7430
plant nutrition, radium 1907
plant residues, utilization, growing media 3476
plant water relations, protected cultivation 4689
pollution, ozone 5561
production
Argentina 6487
Indonesia 5555
Mexico 4704
production possibilities
Argentina 7403
India 34
products, carbohydrates, books 9113
propagation
conferences 1007
mechanization 6498
techniques 32, 5555
protected cultivation
books 991
carbon dioxide 1037, 1039
systems
assessment 9145
greenhouses 7411
plastic film 1021, 7412
plastic tunnels 1895, 7411
row covers 1895, 7411
sustainability 4686
pruning, systems, root pruning 2820
regeneration, pruning 2820
reports
Australia 5546, 8189
Nepal 9128
research, Netherlands 8201
respiration
measurement 1053
storage 10072

Horticultural crops cont.

- salinity
 - conferences 7393
 - reviews 7416
- seedlings
 - planting, mechanical methods 1893
 - production
 - equipment 6499
 - handling 35
- seeds
 - production
 - Croatia 1051
 - cultural methods 5555
 - treatment, reviews 4681
- senescence, reviews 3731
- soilless culture
 - growing media 8210, 9137, 9148-9149
- nutrient solutions
 - cooling 38
 - recycling 7410
 - sterilizing 1034
- systems
 - assessment 3273, 4683, 5564-5566
 - hydroponics 6922
 - nutrient film techniques 1032, 2819
- storage
 - conferences 14
 - models 10072
 - pest control, books 1871
 - physiology 1053
 - quality
 - assessment 3737
 - models 9155
 - research 4699
- systems
 - controlled atmosphere storage 7437, 10072
 - modified atmosphere storage 2838, 7781, 9156, 10072
- treatment
 - research 4699
 - reviews 1915
- surveys
 - Ethiopia 8197
 - Netherlands 1891
- weed control 1035-1036, 1286, 2818, 5563, 8187
- conferences 18

Horticulture

- books, India 8
- information services 3739
- new journals 4655, 6468
- renewable resources, Germany 1019
- statistics, books 5533

Hosta fortunei, *in vitro* culture, propagation, micropropagation 8775-8776

Hosta plantaginea

- leaves, development, plant growth regulators 7875
- photosynthesis, plant growth regulators 7875

Hosta tokudama

- in vitro* culture, propagation, micropropagation 9743

planting stock, storage 9743

Huckleberries (see Vaccinium)**Humidity**

- responses
 - apples 4761
 - cashews 1790
 - chrysanthemums 5170
 - cucumbers 3284
 - lettuces 2163
 - Liichi 8973
 - mandarins 10856
 - oranges 10856
 - pomegranates 8995
 - pummelos 1741
 - roses 7964, 9792
 - tea 9090, 10007
 - tomatoes 3284, 5091, 8676, 9596

Hummingbirds, pollinators, *Agapanthus praecox* 5178

Humulus (see also Hops)

Hungary

- apples, disease control 1085
- Capsicum*
 - climate 9560

Hungary cont.**Capsicum cont.**

- disease control 8629
- pest control 8629

cherries

- cultivars 10188
- production 5636

Gladiolus palustris

- conservation 10641
- ecology 10641

grapes

- cultivars 10313
- legislation 7600
- production 10306
- research 7594

Ophrys

- conservation 10710
- ecology 10710

pears, cultivars 10226

Hyacinths

- bulbs, storage, systems 626
- flowers

colour, biochemistry 638-639, 6127, 7893

- composition 7893
- fragrance, biochemistry 10608
- initiation, plant growth regulators 2403

in vitro culture

- organogenesis 2402, 6127
- propagation, micropropagation 10645
- production, models 8783
- roots, development, physiology 4321

Hyalopterus pruni, horticultural crops 8384

Hydrangea macrophylla

- cuttings, production, techniques 10720
- fertilizers 6187
- flowers, composition 5262
- plant water relations, assessment 2475
- pot plants, production, cultural methods 3481, 8850

Hydrocarbons**composition**

- Botryococcus braunii* 5348
- Euphorbia antisiphylitica* 2573
- Euphorbia milii* 9740
- Spondias dulcis* 3695
- vegetables 9439
- metabolism, pollution, *Tilia* 9860
- responses, *Sandersonia aurantiaca* 4338
- ultrastructure
 - Nelumbo nucifera* 1686
 - Thalictrum flavum* 1686
- uptake, *Rhododendron oomurasaki* 3489

Hydrocotyle heteromeria, as cover crops, apples 9185

Hydrogen, isotopes, grapes 4002

Hydrogen sulfide, toxicity, tomatoes 9579

Hydrophilic polymers

- utilization
 - growing media, lettuces 2157
 - soil amendments
 - lawns and turf 10669
 - raspberries 3007
 - Tagetes erecta* 9691

Hylocereus undatus

- cuttings, rooting, growing media 11023
- plant, development, phenology 2777
- production, Vietnam 2667
- wild plants, utilization, Cape Verde 9731

Hymenoptera, pollinators, *Bletilla striata* 6168

Hymenoscyphus ericae

- mycorrhizas
 - plums 203, 8382
 - Vaccinium corymbosum* 7573
 - Vaccinium macrocarpon* 5710, 8414

Hyoscyamus muticus

- fertilizers
 - nitrogen 10785
 - phosphorus 10785
- in vitro* culture
 - culture media 10786
 - metabolites, production 2557
 - propagation, micropropagation 10786
 - salinity, responses 2557

Hypericum brasiliense, *in vitro* culture, propagation, micropropagation 8924

Hypericum calycinum, flowers, colour, ultrastructure 3506

Hypericum perforatum

- as weeds, olives 7242
- flowers, colour, ultrastructure 3506
- pollution, heavy metals 9815

Hypericum uralum, taxonomy, morphology 3507

Hyperomyzus lactucae, black currants 9342

Hyphantria cunea, grapes 287

Hypnea musciformis, plant, composition 5352

Hypnea pannosa, plant, development, environment 4471

Hypoaspis miles, control, of insects, ornamental plants 6084

Hypothenemus hampei, coffee 7300, 8140, 9033, 9954, 10929

Hypoxia

- apples 4781
- bananas 4585
- grapes 7614

Hypoxis acuminata, *in vitro* culture, propagation, micropropagation 7030

Hypoxis angustifolia, *in vitro* culture, propagation, micropropagation 7031

Hypoxis colchicifolia, *in vitro* culture, propagation, micropropagation 7030

Hypoxis obtusa, *in vitro* culture, propagation, micropropagation 7030

Hypoxis rigidula, *in vitro* culture, propagation, micropropagation 7030

Iberis amara, flowers, development, anatomy 10787

Ilex

- conferences 23
- fertilizers 6187

Ilex aquifolium

- planting stock, production, cultural methods 3466
- reproduction, biology 10719

Ilex colchica, ornamental value 3480

Ilex crenata

- herbicides, injuries 8845
- weed control 8845

Ilex paraguariensis, leaves, composition 10788

Ilex vomitoria, fertilizers, nitrogen 6190

Impatiens

- fertilizers
 - nitrogen 4316
 - phosphorus 4316
 - potassium 4316
- growing media
 - composition 3381, 4307
 - pH 7088
- plant, development, growing media 51
- planting stock, production, cultural methods 3381
- pot plants, quality, plant nutrition 9647
- seedlings
 - production, cultural methods 3380
 - storage 3380

Impatiens balsamina, fruits, development, biochemistry 615

Impatiens walleriana

- herbicides
 - injuries 8745
 - tolerance 2377
- irrigation, water, sources 7876
- leaves, vascular system 9153
- plant nutrition
 - calcium 7876
 - magnesium 7876
 - sulfur 7876
- soil amendments 7876
- weed control 2377

Imperata, as weeds, *Hevea* 10002

Imperata cylindrica, as weeds, *Hevea* 6442-6443

In vitro culture

- abnormal development, *Spathiphyllum floribundum* 4369
- anatomy
 - grapes 263
 - Streblus asper* 782
- anthers
 - apples 1942
 - aubergines 1466
 - Capsicum* 2274, 4185
 - Chinese cabbages × radishes 2180
 - grapes 1228
 - Pouteria lucuma* 10025

In vitro culture cont.

anthers cont.
tomatoes 1466
biochemistry
Aegle marmelos 1768
Ajuga pyramidalis 9823
apples 5619
Asparagus 457, 1407, 5067
aubergines 485
Bambusa vulgaris 4411
blackberries 6654, 8406
carrots 1485, 2326-2327, 4255, 5140, 5142, 6047, 6957-6958, 9621
Catharanthus roseus 1527, 2539, 3541, 7160, 8912, 8914
celery 556
chicory 359, 1302
coffee 9035
Coptis japonica 1681
Cucurbita maxima 5920
Datura fastuosa 7163
Datura stramonium 2543-2544
Digitalis purpurea 1683
grapes 297-298, 1239, 2097, 3993, 4928, 10328
Jerusalem artichokes 8525
lemons 9892
limes 3603
Limonia acidissima 8035
Lithospermum erythrorhizon 10790
Nicotiana sylvestris 3418
oranges 4515
Orchis morio 2449
pears 1167
peas 10508
Petroselinum crispum 3513, 4438
Petunia 2387
Phaseolus vulgaris 425
Pimpinella anisum 5304, 10752
Polygonum tinctorium 6255, 8001
Portulaca grandiflora 4367
Rhynchosytilis retusa 7942
Rosa damascena 6206
Rubia tinctorum 8002
Schlechterina mitostemmatoides 1706
strawberries 1214, 9371
tomatoes 535, 3303, 4239, 5120-5121, 6940-6941, 8688
Vaccinium macrocarpon 3930
walnuts 2985
Zinnia elegans 3423
callus
growth
algae 3556
Alstroemeria 654
Anastatica hierochuntica 1679
apples 126
Artemisia absinthium 9828
Asparagus 457
Bauhinia variegata 5279
Catharanthus roseus 762
chicory 8046
coffee 3656
Glehnia littoralis 8713
Matthiola incana 8777
peaches 3850
Pinellia pedatisecta 10798
Solanum mammosum 10799
temperate fruits 10089
vegetables 9420
ultrastructure, Drosera rotundifolia 682
cell suspensions
Angelica dahurica 6274
apples 5619
bananas 3644, 9932
blackberries 6654-6655
carrots 54, 5140, 5142, 6049, 6274, 7835
Catharanthus roseus 2539, 4412, 4456, 6276, 8912
celery 3320
chicory 359, 1302
coffee 902, 2691
Cucurbita maxima 5913
Dorotheanthus bellidiformis 9739
grapes 297, 2097, 10328
Jerusalem artichokes 54
Mesembryanthemum crystallinum 5244
Nicotiana sylvestris 3418

In vitro culture cont.

cell suspensions cont.
oranges 4515
Petroselinum crispum 3513
Petunia 54, 2387
Phaseolus vulgaris 5947
roses 5275-5276
Rubia tinctorum 8898
tomatoes 5120-5121, 6940
reviews 7820
chimaeras, blackberries 6653
conferences 3711
containers, carnations 10616
contaminants
Allium longicuspis 5781
bananas 6376
garlic 5781
culture media
algae 3326-3327, 3556
Ammi majus 5331
apples 87-90, 647, 5558, 8260
Artemisia pallens 752
Arundina bambusifolia 4371
Asparagus densiflorus 8820
avocados 4476
bananas 3646
Bowiea volubilis 10778
cabbages 10429
Camptotheca acuminata 8911
Capsicum 6898
Carica pubescens 9061
carnations 596, 2378, 7861, 10612
Catharanthus roseus 762
cauliflowers 10427
cherries 4815
Chinese cabbages 8546
coffee 2691
Cordyline fruticosa 680, 3376
cucumbers 3167, 6836
Cymbidium kanran 10702
Cypripedium acaule 2440
Drosera rotundifolia 5338
Eucommia ulmoides 2552
Gerbera 9666
grapes 262, 3955, 6691, 8483
Hevea 10992
Hibiscus syriacus 10736
Hippophae rhamnoides 7592
Homalomena 3376
Hyoscyamus muticus 10786
kiwifruits 1186, 2988
lemons 5390
Lentibula edodes 575
Leontopodium alpinum 9689
lettuces 2168
Lilium 2405
Lilium japonicum 7897
Lilium leichtlinii 2405
Lilium longiflorum 647
Liquidambar styraciflua 4421
loquats 5423
Lythrum diandra 671
melons 6812
mulberries 4822
Murraya koenigii 4437
oil palms 2725
Orchidaceae 7930
pawpaws 928
peaches 3850, 10211
pears 5558, 10230
Perilla frutescens 9825
Phaius tankervilleae 4371, 4382, 7939
Pinellia pedatisecta 10798
plants 31
Prunus glandulosa 90
quinces 1181
raspberries 5558
reviews 6497
Ribes 3918
Rosa kordesii 4402
roses 724, 3376, 4402, 5271
Silybum marianum 6290
Solanum mammosum 10799
Spathiphyllum floribundum 6163
spinach 4969, 10399
tea 10016
tomatoes 3302, 7793, 9608
Trichopus zeylanicus 1693
Vaccinium corymbosum 4881
Vaccinium macrocarpon 8411

In vitro culture cont.

culture media cont.
Vaccinium vitis-idaea 4881
vegetables 9420
Vitis 3064
walnuts 2034, 8388
Zingiber officinale 9822
cytology
Capsicum 4185
chicory x endives 360
peas 5980
Stevia rebaudiana 4473
disorders
browning, apples 3769, 4757
vitrification
apples 90
carnations 596, 1533, 2378
cherries 4814
Doritaenopsis 5257
grapes 3957
Gypsophila paniculata 10628-10629
mangoes 2721
Origanum vulgare 5316
plants, reviews 3717
Prunus glandulosa 90
embryos
Alstroemeria 654
avocados 4476
Chinese cabbages 4088
grapes 1227
loquats 5423
melons 1812
Orchidaceae 7930
peaches 3852
Rhynchosytilis retusa 7942
encapsulation
apples 647
Lilium longiflorum 647
explants
size, roses 5271
sources
Actinidia arguta 1185
Alstroemeria 654
apples 4757
Armoracia rusticana 3511
aubergines 485
avocados 793
bananas 879
Bauhinia variegata 5279
cabbages 10428-10429
Camellia 712
carnations 1533
cashews 8129
Catharanthus roseus 762
cauliflowers 10427
Chinese cabbages 4088
Crinum macowanii 4333
cucumbers 5888, 5893
Cucurbita pepo 3187
dates 4536
Dianthus chinensis 1532
Erysimum scoparium 6282
figs 2941
grapes 8484
Hevea 2740, 5506
Kalanchoe blossfeldiana 8826
kumquats 6315
lawns and turf 665
Lilium japonicum 3433
Matthiola incana 8777
melons 6812
Munronia pumila 10792
Murraya paniculata 10739
roses 4401
sour oranges 10835
Stokesia laevis 621
Syngonium podophyllum 5247
tomatoes 4244, 9577
tulips 7021-7022
Vaccinium macrocarpon 3930
sterilizing
bananas 6376
Hevea 2740
genetic transformation
Lobelia cardinalis 4310
roses 10727
growth, assessment, Solieria chordalis 1707
histology
Asparagus 9547

In vitro culture cont.

histology cont.

Capsicum 2281
 carnations 596
 cucumbers 2215
Dendrobium 699
Erysimum scoparium 6282
 feijoas 6347
 grapes 1225
 lemons 5390
Rosa chinensis 6203
 roses 6203
Syringa vulgaris 6203

inoculation

Agrobacterium rhizogenes, cashews 8129

Glomus, *Gerbera* 606
 mycorrhizas, horticultural crops 8206

metabolites

production

beetroots 344
 carrots 54
 edible fungi 3332
Haematococcus pluvialis 1703
Hyoscyamus muticus 2557
 Jerusalem artichokes 54
Mentha piperita 3523
 ornamental ferns 54
Perilla frutescens 9825
Petunia 54
 plants, reviews 7129
Polianthes tuberosa 6138
 radishes 8561
Simmondsia chinensis 9863
 strawberries 3018
 tea 10016
Vitis 3064

mycelium, edible fungi 3363

organogenesis

Albizia julibrissin 5277
Ammi majus 5331
Anthurium 1548
Anthurium andraeanum 8762
Antirrhinum 6992
 apples 88, 90, 1071, 3770-3771, 6546-6548
Artemisia absinthium 9828
Artemisia pallens 752
Asparagus 4181
 aubergines 10360
 avocados 793, 4476
 bananas 8119
Begonia erythrophylla 7889
Boehmeria nivea 8931
Boerhavia diffusa 3538
Bowiea volubilis 10778
Brassica alboglabra 4089
Bunium persicum 8005
 cabbages 10428-10429
Camellia 712
Capsicum 1412, 2275, 2281, 10360
 carnations 7862
Catharanthus roseus 7161
 cauliflowers 3137, 10427
 cherries 4815, 10190
Citrus 10834
Citrus latifolia 7212
 cucumbers 5888, 10478
Cyclamen 9694
Dianthus chinensis 1532
Drosera rotundifolia 5338
 figs 2941
 garlic 7656
Gleditsia triacanthos 6223
 globe artichokes 354
 grapes 262
Heliconia psittacorum 10656
Hevea 10993
Hippophae rhamnoides 7592
 hops 10768
 hyacinths 2402, 6127
Kalanchoe blossfeldiana 8826
 kiwifruits 210, 2988
 kumquats 6315
Lavandula intermedia 3258
Lilium japonicum 646
Lilium longiflorum 5197
Limonium sinuatum 4309
Liquidambar styraciflua 4421
 mangosteens 6467
Matthiola incana 8777

In vitro culture cont.

organogenesis cont.

Maytenus ilicifolia 3547
 melons 6812
Murraya paniculata 10739
 pawpaws 10985
 persimmons 9915
Phaius tankervilleae 10712
Phlox paniculata 5188
 pineapples 7346
Pinellia pedatisecta 10798
Platycerium coronarium 7039
 plums 2029
Prunus glandulosa 90
Ptilotus exaltatus 7012
 pummelos 6317
 radishes 7716
Rhododendron simsii 7090
 roses 1633, 4401, 5271, 8857, 9783, 10727
Silybum marianum 6290
Spathiphyllum floribundum 690
Stevia rebaudiana 4473
 strawberries 3938
Stryphnodendron polyphyllum 3551
 tomatoes 2291, 3258, 3303, 4244, 6028, 7793, 10360
 tropical crops 4678
Vaccinium macrocarpon 8411
 vegetables 9420
Vitis 6546
 walnuts 5690, 10256

physiology

cucumbers 3188, 5919, 10478
Gardenia jasminoides 9807
 grapes 294
Pholiota nameko 6071
 tulips 6131
Vitis 8485
 walnuts 2986

plant embryos

calamondins 9880
 cherries 4815
Glehnia littoralis 8713
Hevea 2741
 mandarins 9880
 oranges 9880
 Orchidaceae 7055
Panax pseudoginseng 10793
 peas 6858
Phaius tankervilleae 10712
 pistachios 7545
 plums 2030
Ribes 3918
Rosa 9784
 roses 2486
 tea 11001

plant nutrition

carrots 6954, 7835
Dactylorhiza 2441
Dactylorhiza incarnata 2442
Laelia cinnabarina 7059
Lilium japonicum 10648
Malus 1103
Orchis morio 2449
Ptilotus exaltatus 1556

pollen, *Polygonum odoratum* 7881

propagation

micropropagation

Acer rubrum 7100
Actinidia arguta 1185
Aegle marmelos 8997, 9846
Albizia julibrissin 6213
 Aloaceae 4360
Aloe barbadensis 8819
Alpinia galanga 1660
Annona muricata 7263
Anthurium 6107
Antirrhinum 4280
 apples 89, 1070, 1942, 8259
 apricots 8325
Aralia cordata 1494
Aristolochia bracteata 4454
Armoracia rusticana 3511
Artemisia annua 9848
Arundina bambusifolia 4371
Asparagus 1404
Asparagus densiflorus 3449
 avocados 794
Babiana 7026
 bamboos 558, 8714

In vitro culture cont.

propagation cont.

micropropagation cont.

Bambusa ventricosa 1638
 bananas 30, 879, 3646, 7270, 8119, 9004
Bauhinia variegata 5279
Boehmeria nivea 9840
Boronia 1640
Brassica chinensis 3138
 broccoli 9743
Caladium bicolor 10681
Camptotheca acuminata 8911
Capsicum 471, 6898
 carambolas 7372
 carnations 597, 1533, 6089
Carum carvi 1662
 cashews 8129
Catharanthus roseus 761
 cauliflowers 3137
Chaenomeles japonica 5696
 cherries 1992
 Chinese cabbages 376
 chrysanthemums 601
Citrus 5368, 10834
Citrus nobilis × mandarins 3583
Cnidium officinale 9851
 coconuts 1799
 coffee 6400, 7295
Cordyline fruticosa 680
Coriandrum sativum 10749
Crateva religiosa 5337
Crinum macowanii 4333
 cucumbers 1354, 2200, 5893, 6811
Cucumis anguria 2200
Cyclamen 9694
Cymbidium pendulum 7935
Cymbopogon 8902
Cymbopogon flexuosus 6259
 dates 849, 4536, 5412-5413
Dendrobium 699, 2444, 7936
Dionaea muscipula 8824
Drosera 8824
Encephalartos cycadifolius 9802
Ensete ventricosum 6057
Eucomis 4334
Eucomis pole-evansii 4460
Eustoma grandiflorum 8772
 feijoas 8971
Ficus benjamina 7046
 figs 169, 1141
 fruit crops 2811
 garlic 2120, 5834, 7658
Garrya elliptica 6222
Gerbera 8750
Gladiolus 3429-3430, 6126
Glehnia littoralis 8713
 grapes 3956-3958, 4907-4908, 7608, 8453, 10318
Gymnema sylvestre 8923
Gypsophila paniculata 6112
Hemidesmus indicus 6284
Hevea 2741
Hibiscus syriacus 10736
Hippophae rhamnoides 7592
 horticultural crops 34, 8206
Hosta fortunei 8775-8776
Hosta tokudama 9743
 hyacinths 10645
Hyoscyamus muticus 10786
Hypericum brasiliense 8924
Hypoxis 7030
Hypoxis angustifolia 7031
Iris pallida 4322
Jatropha curcas 8930
Juglans nigra 2033
 kiwifruits 1186
Lachenalia 1576
Lagerstroemia indica 1650
 lawns and turf 665
Leontopodium alpinum 9689
Liatris spicata 6137
Lilium 2405-2406, 7019
Lilium japonicum 3433, 7897
Lilium leichlinii 2405-2406
Lilium longiflorum 10649
Liriodendron 7085
Luculia 2510
Magnolia 7085
Magnolia soulangiana 9778

In vitro culture cont.

- propagation cont.
- micropropagation cont.
- Malus honanensis* 9181
- mandarins 1716
- Melissa officinalis* 6264
- Mentha* 5312
- Mentha piperita* 3523
- Millingtonia hortensis* 4425
- Mokara* 703
- Moringa oleifera* 7169
- Mucuna pruriens* 5342
- Murraya koenigii* 4437
- Musa acuminata* 2676
- Nelumbo* 8814
- Nephrolepis exaltata* 5222
- Nicandra physalodes* 2560
- Oenothera biennis* 769
- okras 8620
- olives, reviews 9908
- oranges 3583, 7198
- passion fruits 4555
- pawpaws 2731, 10985
- peaches 3852, 10211
- pears 10230
- peas 6858
- Pelargonium roseum* 5319
- Petroselinum crispum* 6249, 6268
- Phaius tankervilleae* 4371, 7939
- Phaseolus vulgaris* 2224
- Phyllanthus emblica* 11025
- Picea* 2478
- pistachios 2020
- Plantago ovata* 9859
- plants, reviews 3716
- Platyserium bifurcatum* 7918
- Platyserium superbum* 1588
- Plumbago indica* 7178
- Prunus pseudocerasus* 1133
- Prunus serotina* 9810
- Prunus verecunda* 9811
- Psophocarpus tetragonolobus* 6875
- radishes 1345
- Rauvolfia micrantha* 8926
- Rauvolfia serpentina* 8039
- Rehmannia glutinosa* 8040
- Rosa* 9784
- Rosa kordesii* 4402
- Rosa multiflora* 2485
- roses 724, 1632, 4402, 7095
- Rubus* 5697
- Rudbeckia hirta* 5191
- Shepherdia rotundifolia* 10743
- Simmondsia chinensis* 9864
- Solanum pseudocapsicum* 4429
- Solanum viarum* 10800
- Solenostemon rotundifolius* 8721
- Spathiphyllum* 689
- spinach 3106, 10399
- Spiranthes odorata* 705
- Stachys sieboldii* 5145
- Stapelia semota* 5246
- Stokesia laevis* 621
- strawberries 2058, 10291
- Syngonium podophyllum* 5247
- Thladiantha grosvenorii* 8043
- Tilia cordata* 4432
- tomatoes 1440, 4207, 9577
- Trachyspermum ammi* 4442
- Trapa* 6059
- Trichopus zeylanicus* 1693
- tulips 6131, 7021-7022
- Vanda* 7945, 9765
- Vitis aestivalis* 4908
- Vitis champini* 4908
- walnuts 8388-8389, 10255
- watermelons 1813, 4608, 9040
- Welsh onions 343, 4050, 5833
- Yucca aloifolia* 9749
- Zingiber officinale* 2523, 5325
- Ziziphus mauritiana* 5517
- Ziziphus nummularia* 3691
- protoplasts, *Silybum marianum* 6290
- responses
 - Acer rubrum* 731, 2489
 - apples 2865
 - Aronia arbutifolia* 4410
 - Asparagus* 10510
 - Bambusa ventricosa* 1638
 - bananas 4578

In vitro culture cont.

- propagation cont.
- responses cont.
- carnations 9657
- chicory 3123
- citranges 9877
- dates 2629, 10869-10871
- Eustoma grandiflorum* 8772
- grapes 3958, 7627, 7629
- Hevea* 2741
- Lilium* 7019
- nectarines 3843
- Oenothera biennis* 769
- peaches 3843
- Pelargonium roseum* 5319
- raspberries 5705
- Sorbus* 8885
- sour oranges 10835
- Stevia rebaudiana* 8050
- strawberries 1209, 3937, 4886
- tomatoes 10542
- Vaccinium corymbosum* 5708, 9353
- Vismia guianensis* 2570
- Zingiber officinale* 8889
- techniques
 - apples 8258
 - Armoracia rusticana* 6243
 - carnations 1533
 - grapes 3955, 7607
 - reviews 4909
 - kiwifruits 10265
 - Magnolia delavayi* 7086
 - Munronia pumila* 10792
 - Orchidaceae 7055
 - pistachios 7545
 - roses 1632, 7095
 - tomatoes 7794
 - Trichopus zeylanicus* 1693
 - Vitis* 10317
 - Zingiber officinale* 9822
- protoplasts
 - Actinidia eriantha* 8394
 - Agaricus blazei* 2354
 - apples 1070
 - carrots 3317
 - Chinese cabbages 6782
 - cucumbers 1354
 - Eustoma grandiflorum* 8772
 - garlic 1279, 5834
 - kiwifruits 3912
 - lettuces 2168
 - loquats 5423
 - olives 2652
 - onions 5816
 - Petroselinum crispum* 4438
 - Pleurotus* 9634
 - spinach 10399
 - tomatoes 2292
 - Vitis* 5753
 - Welsh onions 5816
- regeneration, *Antirrhinum* 6992
- responses
 - aeration, lettuce 2168
 - age, peaches × almonds 3851
 - alkaloids, chicory × endives 4980
 - amino acids, carrots 6957
 - ammonium, *Lavandula angustifolia* 9829
 - antibiotics
 - Allium longicuspis* 5781
 - garlic 5781
 - Phalaenopsis* 2450
 - bicarbonates, tomatoes 3302
 - cadmium, aubergines 10535
 - carbohydrates, blackberries 6654-6655
 - carbon dioxide
 - Mokara* 703
 - walnuts 2986
 - containers, peaches × almonds 3851
 - coumarins, carrots 7837
 - cultivars 1390
 - Anthurium* 1548, 6107
 - apricots 8325
 - aubergines 10533
 - Chinese cabbages 4088
 - cucumbers 5888
 - Cucurbita pepo* 1353
 - Ficus benjamina* 7046
 - figs 2941

In vitro culture cont.

- responses cont.
- cultivars cont.
- pears 10230
- Pyrus* 2967
- roses 5271
- Vaccinium corymbosum* 4881
- Vaccinium vitis-idaea* 4881
- Vicia faba* 6856
- dark, apricots 8325
- fungal elicitors, *Phaseolus vulgaris* 2239
- gamma radiation, *Alpinia purpurata* 5204
- heavy metals, tomatoes 6029
- herbicides, carrots 6957
- humidity, *Gypsophila paniculata* 6112
- lectins, carrots 6043
- light
 - algae 3556
 - bananas 7271
 - Caladium bicolor* 8822
 - cashews 8129
 - chicory 5845
 - Cyclamen* 9694
 - Gardenia jasminoides* 9807
 - Haematococcus pluvialis* 1703
 - leeks 4952
 - Lilium* 2406
 - Lilium leichtlinii* 2406
 - pears 1160
 - Portulaca grandiflora* 4367
 - roses 724, 5271
 - walnuts 2986
- mycorrhizas
 - strawberries 2059
 - Ziziphus nummularia* 3691
- nitrogen
 - Petasites japonicus* 8541
 - Phalaenopsis* 4383
 - Poncirus trifoliata* 8943
- nucleosides, *Zinnia elegans* 8782
- pH
 - Rubia tinctorum* 8898
 - Vitis* 3064
- phosphorus, *Petasites japonicus* 8541
- phytoalexins, carrots 7837
- polysaccharides, grapes 1229
- salinity
 - lemons 9892
 - oranges 834
 - peaches 177
 - peaches × almonds 177
 - tomatoes 4229, 9607, 10561
- sterols, Chinese cabbages 6782
- sugars
 - apricots 8325
 - Gardenia jasminoides* 9807
 - Lilium japonicum* 2404, 10647
 - Petasites japonicus* 8539
 - Poncirus trifoliata* 8943
 - radishes 8561
 - roses 5271
 - spinach 8514
- surfactants, grapes 263
- temperature
 - carrots 4255
 - Lachenalia* 4335
 - Lilium* 2406
 - Lilium japonicum* 646, 10647
 - Lilium leichtlinii* 2406
 - mangoes 7328
 - peaches 5653
 - Phalaenopsis* 4383
 - radishes 8561
 - roses 5271
 - satsumas 2615
 - tomatoes 6029
- ventilation, *Petasites japonicus* 8539
- water stress
 - grapes 263
 - mangoes 7328
 - Vicia faba* 6856
- somaclonal variation
 - bananas 2675, 3645, 6377, 8118, 9004
 - cucumbers 9503
 - hazelnuts 5644
 - raspberries 5706
 - Rosa multiflora* 2485

In vitro culture cont.

- somatic embryogenesis
- Anthurium andraeanum* 7871
- apples 3771
- Asparagus* 1404-1406, 10510
- aubergines 485, 10533
- bamboos 558, 8714
- Bambusa vulgaris* 4411
- bananas 3644, 4579, 8119, 9932
- Bunium persicum* 8005
- Capsicum* 6898
- Carica pubescens* 9061
- carnations 1533
- carrots 552, 2325, 5141, 6043, 6048, 6953-6954, 9619
- chicory 2153
- chicory × endives 1303, 4980
- Chinese cabbages 8546
- Citropsis gabunensis* 8899
- Citropsis schweinfurthii* 10836
- Citrus*, reviews 6316
- cocoa 5469, 10916
- coconuts 1798-1799, 2690
- Coffea congensis* × *Coffea canephora* 1803
- coffee 30, 2691, 4601, 6400, 7294, 7309, 9026
- Coriandrum sativum* 10749
- cucumbers 1354, 2215, 3167-3168, 5888, 5893, 6836
- Cucurbita pepo* 1353, 3187
- Cuminum cyminum* 7989
- Cyclamen persicum* 631
- Cymbopogon* 8902
- dates 4536, 5413, 10872
- Drosera rotundifolia* 682
- Encephalartos cycadifolius* 7109, 9802
- Encephalartos ferox* 9803
- Eucommia ulmoides* 2552
- feijoas 6347
- fennel 1492
- Fortunella polyandra* 8899
- Freesia refracta* 758
- Gladiolus* 1563
- Glycosmis pentaphylla* 8899
- grapes 3956, 3959, 6691, 9384-9385
- Hesperethusa crenulata* 8899
- Hevea* 30, 2742, 10992
- Juglans nigra* 2033
- leeks 4952
- Liriodendron* 7085
- Magnolia* 7085
- mandarins 1716
- mangoes 7322
- Microcitrus inodora* 8899
- mulberries 4822
- Paeonia anomala* 4313
- Panax pseudoginseng* 10793
- Panax quinquefolius* 758
- peas 1389-1390, 10508
- Picea* 2478
- pistachios 5681
- radishes 1345
- Simmondsia chinensis* 9863
- spinach 4969, 8514
- tangors 7218
- tea 1847, 4644
- tomatoes 4207
- Triphasia trifolia* 8899
- Vitis* 5753
- woody plants, books 1864
- Yucca aloifolia* 9749

storage

- apples 1943, 3772
- Asparagus* 1405
- bananas 3643, 4580
- carrots 2698
- Catharanthus roseus* 6278
- chrysanthemums 601
- coffee 2698, 4602
- Eutrema wasabi* 4436
- kiwifruits 2038
- Lachenalia* 4335
- Lilium longiflorum* 647
- oil palms 2725, 6433
- persimmons 4560
- Petasites japonicus* 8540-8541
- Phaius tankervilleae* 10712
- Ribes* 6650
- tea 9089

In vitro culture cont.

- storage cont.
 - Trapa* 6059
 - tropical crops 4570
 - symbiosis, *Azotobacter zettuvii*, carrots 6045
 - techniques
 - apples 6546
 - bananas 7260
 - beetroots 344
 - carrots 6953
 - cherries 4814
 - Coffea congensis* × *Coffea canephora* 1803
 - coffee 7260
 - Cymbidium sinense* 4374
 - essential oil plants, books 8175
 - garlic 4021
 - grapes, books 10036
 - Hevea* 7260
 - horticultural crops 5557
 - medicinal plants, books 8175
 - onions 6494
 - peaches × almonds 4831
 - plants 31, 6495
 - roses 724
 - tropical crops 30
 - Vitis* 6546
 - ultrastructure
 - Anthurium andraeanum* 7871
 - apples 121
 - blackberries 6655
 - Drosera spatulata* 5236
 - Zinnia elegans* 2399
- India**
- Agave*, cultivars 7150
 - algae, cultural methods 5354
 - apples
 - cultural methods 9168
 - plant nutrition, surveys 104
 - Areca catechu*
 - cultural methods 6373
 - economics 6373
 - bananas
 - cultivars 2674, 4576
 - economics 7268
 - production 3641
 - Bixa orellana*, production possibilities 5306
 - Brussels sprouts, cultural methods 3139
 - cabbages, cultivars 10430-10431
 - Capsicum*, cultivars 6896
 - carrots, cultivars 10576
 - cashews
 - cultivars 4590, 7279
 - production 5463
 - chicory, cultivars 10406
 - coconuts
 - cultivars 2686
 - production 7288, 9945
 - weeds, surveys 9949
 - Coriandrum sativum*, cultivars 4435, 7132
 - cropping systems, agroforestry, books 1873
 - culinary herbs, production possibilities 5308
 - Curcuma longa*
 - cultivars 1665, 6247, 7134, 9819
 - cultural methods 8917
 - Cymbopogon jwarancusa*, cultivars 7140
 - dates, cultivars 8087
 - edible fungi, books 10031
 - Elettaria cardamomum*, economics 8888
 - essential oil plants, books 9112
 - ethnobotany 5299, 5327
 - fennel, cultural methods 8903
 - fruit crops, production possibilities 8199
 - garlic
 - cultivars 10369
 - production 1283
 - guavas, cultivars 7316
 - Hevea*
 - cultivars 941
 - production 9999
 - horticultural crops
 - cultural methods 10066
 - new journals 6468
 - production 6491
 - production possibilities 34
 - horticulture, books 8

India cont.

- Jatropha curcas*, production possibilities 7183
 - land, utilization 6491
 - limes, pests, surveys 2605
 - Litchi*, production 2632
 - mandarins
 - disease control 2596
 - pest control 2596
 - mangoes
 - cultivars 3675, 4620, 5494, 7329
 - plant nutrition, surveys 10952
 - medicinal plants, books 9112
 - Moringa oleifera*, cultivars 8718, 8720
 - oil plants, production possibilities 7182
 - oilseed plants
 - books 10030
 - production possibilities 7182
 - okras, cultivars 6887, 9548, 9551
 - olives, cultivars 2643
 - onions
 - cultivars 4034, 9438, 10375
 - economics 337
 - production 1283
 - Orchidaceae
 - conservation 7928
 - economics 9755
 - production possibilities 7929
 - ornamental plants
 - books 10032
 - new journals 1
 - production 6491
 - surveys 5154
 - Papaver somniferum*, cultivars 7173, 10797
 - pears, disease control 7540
 - peas, cultivars 9533
 - Pelargonium graveolens*, production possibilities 7146
 - Phyllanthus emblica*, economics 7378
 - Pleurotus*
 - cultural methods 10592
 - species 577
 - pomegranates, cultivars 8994
 - radishes, cultivars 3154
 - Rosa*, cultural methods 1676
 - Sauropus androgynus*, production possibilities 10359
 - spice plants
 - books 10030
 - cultural methods 2517
 - Taeniophyllum crepidiforme*, conservation 7068
 - tea, disease control 11009
 - tomatoes, cultivars 488-489, 5084, 10538
 - Trichosanthes dioica*, cultivars 6808
 - tropical crops
 - books 10030
 - production, books 2788
 - wild plants
 - edible species 5299, 6370, 10262
 - surveys 5298, 6529
 - Zingiber officinale*
 - cultivars 1668
 - production 7998
 - Ziziphus mauritiana*, cultivars 11020
- Indigofera pendula**, ornamental value 2505
- Indoles**
- composition, *Calanthe* 10698
 - metabolism, models, mangoes 6432
- Indonesia**
- Allium*
 - production 5779, 5830
 - research 5779
 - Capsicum*, pest control 474
 - cocoa, cultural methods 10915
 - coffee, production 8134
 - Durio zibethinus*, ecology 5525
 - fruit crops, research 5556
 - grapes, production 10308
 - Hevea*, economics 6439, 10002
 - horticultural crops, production 5555
 - mangosteens, research 2776
 - Metroxylon*, research 973
 - Metroxylon sagu*, yields 983
 - Salacca zalacca*, production 7379
 - vegetables, research 5556
- Industrial wastes**
- utilization
 - fertilizers
 - lettuces 9460

Industrial wastes cont.

- utilization cont.
- fertilizers cont.
- oil palms 925
- okras 466
- pears 1163
- tomatoes 9460
- growing media
- Auricularia* 3354
- edible fungi 2334
- lettuces 2159, 9460
- Pleurotus* 4272, 6072
- Pleurotus ostreatus* 6986
- roses 6197
- tomatoes 508, 9460, 10547
- horticulture 1044
- irrigation, bananas 1785
- soil amendments
- onions 4959
- Phaseolus vulgaris* 6845-6846
- strawberries 2060

Inflorescences

- abscission, physiology, pistachios 2021
- aroma, storage, broccoli 4119
- biochemistry
- disorders, mangoes 7331
- models, mangoes 6432
- colour
- plant growth regulators, broccoli 3153
- storage, broccoli 5878
- development
- anatomy, pistachios 2021
- biochemistry
- Arum italicum* 6132
- broccoli 2182
- ornamental plants 2417
- Sauromatum guttatum* 7885
- physiology, *Arum maculatum* 1571
- plant growth regulators
- Asparagus* 7764
- cauliflowers 10436
- grapes 3989
- lawns and turf 9721
- maturity, assessment, broccoli 5877
- quality
- cultivars, broccoli 9473
- planting date, broccoli 9473
- storage, broccoli 4120
- temperature, broccoli 9473

Information services

- horticultural crops, Germany 3715, 8198
- horticulture 3739

Inga, as shade plants, coffee 8138**Inocarpus fagifer**, surveys, Vanuatu 10904**Inonotus obliquus**, ecology, Kazakhstan 9854**Insecticides**

- abamectin, residues, hops 8909
- acephate
- metabolism
- Capsicum* 1418
- cucumbers 1418
- aldicarb, residues, oranges 2612
- aldrin
- determination, oranges 5388
- residues, oranges 5388
- avermectins
- residues
- cabbages 5870
- lettuces 8537
- azadirachtin, injuries, chrysanthemums 1540
- azinphos-methyl
- determination, oranges 5388
- residues, oranges 5388
- surfactants, apples 2906
- buprofezin, injuries, *Gerbera* 8756
- captafol
- determination, oranges 5388
- residues, oranges 5388
- carbaryl, residues, mangoes 8150
- carbofuran
- residues, aubergines 2287
- responses
- Momordica charantia* 7741
- watermelons 6417
- carbophenothion
- determination, oranges 5388
- residues, oranges 5388
- carbosulfan, residues, peaches 1154

Insecticides cont.

- chinomethionat, injuries, chrysanthemums 1540
- chlorfenvinphos
- determination, oranges 5388
- residues
- carrots 2323
- oranges 5388
- chlorpyrifos
- determination
- Elettaria cardamomum* 6261
- oranges 5388
- residues
- Elettaria cardamomum* 6261
- kiwifruits 3909
- oranges 5388
- surfactants, apples 2906
- chlorpyrifos-methyl
- residues
- globe artichokes 4979
- oranges 5387
- cypermethrin
- persistence, cabbages 5871
- responses, okras 466
- alpha-cypermethrin, residues, tea 1852
- deltamethrin, persistence, cabbages 5871
- diazinon
- determination, oranges 5388
- injuries, *Valerianella locusta* 3328
- residues
- kiwifruits 3909
- oranges 5388
- dicofol
- determination, oranges 5388
- residues, oranges 5388
- dimethoate
- determination, *Elettaria cardamomum* 6261
- residues
- cucumbers 3181
- Elettaria cardamomum* 6261
- olives 1762
- oranges 5387
- responses, aubergines 8640, 9568
- disulfoton, responses, coffee 1804
- endosulfan
- determination, oranges 5388
- injuries
- onions 2136
- Valerianella locusta* 3328
- residues
- carnations 599
- oranges 5388
- responses
- aubergines 8640, 9568
- onions 4046
- ethion
- determination, oranges 5388
- residues, oranges 5388
- ethoprophos, residues, lawns and turf 8812
- fenitrothion
- determination, oranges 5388
- residues
- Lentinula edodes* 2356
- oranges 5388
- fenoxycarb, tolerance, ornamental woody plants 1618
- fenpropathrin, persistence, cabbages 5871
- fenthion
- determination, *Elettaria cardamomum* 6261
- residues
- Elettaria cardamomum* 6261
- olives 1762
- oranges 5387, 8956
- fenvalerate
- persistence, cabbages 5871
- residues, *Capsicum* 6001
- fluvalinate, injuries, chrysanthemums 1540
- folpet
- determination, oranges 5388
- residues, oranges 5388
- heptachlor, persistence, hops 3536
- imidacloprid
- injuries, *Citrus* 1727
- responses, melons 2707
- kinoprene, injuries, chrysanthemums 1540

Insecticides cont.

- malathion
- determination, oranges 5388
- injuries, *Allium* 6762
- residues
- cabbages 1338, 4107
- Capsicum* 9565
- oranges 5388
- methamidophos
- application methods
- mandarins 8070
- ornamental woody plants 2482
- injuries, *Gerbera* 8756
- metabolism
- Capsicum* 1418
- cucumbers 1418
- methidathion
- determination, oranges 5388
- residues, oranges 5387-5388
- methomyl
- application methods, mandarins 8070
- determination, grapes 10343
- residues, grapes 10343
- methyl bromide
- injuries
- apples 4802
- grapes 3960
- satsumas 5406
- responses, dates 852
- mineral oils
- injuries, chrysanthemums 1540
- residues, kiwifruits 3909
- responses
- grapefruits 5395
- oranges 5395, 5408
- tolerance, ornamental woody plants 1618
- monocrotophos
- determination, *Elettaria cardamomum* 6261
- injuries, onions 2136
- residues
- Elettaria cardamomum* 6261
- Ziziphus mauritiana* 6463
- responses, onions 9447
- naled, injuries, carnations 8747
- neem extracts, adjuvants, aubergines 1425
- omethoate
- residues
- cucumbers 3181
- olives 1762
- oxamyl, application methods, ornamental woody plants 2482
- oxydemeton-methyl, responses, onions 9447
- parathion, residues, oranges 5387
- parathion-methyl
- determination
- Elettaria cardamomum* 6261
- oranges 5388
- residues
- Elettaria cardamomum* 6261
- oranges 5387-5388
- responses, onions 4045
- permethrin, residues, kiwifruits 3909
- phorate
- residues, carrots 2323
- responses, aubergines 8640, 9568
- phosmet
- determination, oranges 5388
- residues, oranges 5388
- pirimicarb
- application methods, ornamental woody plants 2482
- residues
- globe artichokes 4979
- nectarines 6623
- peaches 6623
- pirimiphos-methyl
- residues
- cabbages 1338, 4107
- kiwifruits 3909
- responses, tomatoes 10556
- profenofos
- application methods, mandarins 8070
- responses, tomatoes 10556
- prothiofos, residues, cabbages 1338, 4107
- pyraclofos, metabolism, cabbages 5874
- pyrethroids, residues, spinach 8519

Insecticides cont.

- quinalphos
 - determination, *Elettaria cardamomum* 6261
- persistence, tomatoes 1460
- residues
 - aubergines 5869, 10536
 - cabbages 5869
 - carrots 2323
 - Elettaria cardamomum* 6261
 - oranges 5387
 - Ziziphus mauritiana* 6463
- responses, onions 9447
- sulfotep, injuries, carnations 8747
- tetradifon
 - determination, oranges 5388
 - residues, oranges 5388
- thiodicarb, residues, chrysanthemums 2833
- triazophos, residues, carrots 2323

Insects

- apples 1091
- broccoli 1336
- cabbages 7710
- Capsicum* 4191
- Citrus* 1735
- cocoa 4593
- cut flowers 591
- cut foliage 591
- dates 2630
- fruit crops 52
- mushrooms 7847
- peas 3214
- pecans 2979
- pollinators, apples 10136
- small fruits 3907
- strawberries 3945, 6676
- tomatoes 7808
- vegetables 52

Integrated control

- Acari
 - apples 114
 - grapes 8474
- Aphanomyces euteiches*, peas 7758
- Aphis gossypii*, melons 2708
- Araecerus fasciculatus*, coffee 901
- arthropods
 - Citrus* 7207
 - grapes 3056
 - pears 2969
 - raspberries 1193
- Auchenorrhyncha, apples 8297
- Botrytis cinerea*
 - aubergines 8645
 - grapes 4924
 - horticultural crops 1048
- Colletotrichum orbiculare*, cucumbers 8575
- Contarinia citri*, mangoes 4627
- Cydia pomonella*, apples 7480, 8297
- Cydia prunivora*, apples 8297
- diseases
 - Citrus* 1725
 - grapes 4917, 6532, 8470
 - books 2789
 - onions 1290
 - peaches 3864
 - strawberries 9368
 - temperate fruits 6532
 - books 2789
 - vegetables, reviews 3078
- Dryocosmus kuriphilus*, chestnuts 6606
- Eriosoma lanigerum*, pome fruits 66
- Frankliniella occidentalis*, *Capsicum* 4192
- fungi, temperate fruits 3751
- Fusarium oxysporum* f.sp. *albedinis*, dates 851
- Fusarium oxysporum* f.sp. *basilicum*, *Ocimum basilicum* 1047
- Fusarium oxysporum* f.sp. *cubense*, bananas 10911
- Fusarium oxysporum* f.sp. *zingiberi*, *Zingiber officinale* 1669
- Hemiptera, kiwifruits 4868
- Hypothenemus hampei*, coffee 9954
- insects
 - almonds 2852
 - Brassica* 4102
 - Citrus* 6334
 - fruit crops 285

Integrated control cont.

- insects cont.
 - grapes 285
 - peaches 2964
 - strawberries 6676
 - tomatoes 7813
- Lepidoptera
 - apples 8297
 - kiwifruits 4868
- Liriomyza trifolii*
 - ornamental plants 2830
 - tomatoes 2308
 - vegetables 2830
- Lygus spinolae*, tea 961
- Macrosiphum euphorbiae*
 - cucumbers 3285
 - tomatoes 2308, 3285
- Meloidogyne incognita*
 - aubergines 5083
 - tomatoes 5083
- Monilinia*, temperate fruits 4721
- Monochamus leuconotus*, coffee 10928
- Myzus persicae*
 - cucumbers 3285
 - tomatoes 3285
- Panonychus citri*, *Citrus* 6333
- Panonychus ulmi*, apples 2895, 7480, 9193
- papaya ringspot potyvirus, pawpaws 8157
- Penicillium expansum*, pears 2017
- Perileucoptera coffeella*, coffee 9955
- pests
 - Capsicum* 474
 - Citrus* 1725
 - fruit crops 7422
 - grapes 4917, 6532, 6706
 - books 2789
 - greenhouse crops 8224
 - horticultural crops 19
 - books 997
 - onions 1290
 - ornamental woody plants 2473, 7948
 - peaches 3864
 - pome fruits 2844
 - stone fruits 3749
 - strawberries 1211, 9368
 - temperate fruits 6532
 - books 2789
 - vegetables, reviews 3078
- Phialophora malorum*, pears 2017
- Phyllosticta citrella*, *Citrus* 6333
- Phyllosticta oleivora*, *Citrus* 6333
- Phytophthora cactorum*, apples 6563
- Phytophthora capsici*, *Piper nigrum* 749
- Plasmopara viticola*, grapes 4924
- Plutella xylostella*, cabbages 4103
- Podosphaera leucotricha*, apples 7480
- Polyphagotarsonemus latus*
 - cucumbers 3285
 - tomatoes 3285
- Pseudoperonospora cubensis*, cucumbers 8575
- Pythium ultimum*, cucumbers 1047
- Rhagoletis pomonella*, apples 8297
- Rhizoctonia*, *Calluna vulgaris* 10718
- Rhizoctonia solani*, *Phaseolus vulgaris* 1047
- Rhynchophorus palmarum*, oil palms 6435
- Sclerotinia sclerotiorum*, cucumbers 8575
- Scrobipalpa absoluta*, tomatoes 6021
- Tessaratomia papillosa*, *Litchi* 7234
- Tetranychus urticae*
 - pome fruits 66
 - strawberries 10298
- Thrips tabaci*
 - leeks 341
 - onions 341, 3095
- Trialeurodes vaporariorum*
 - aubergines 6933
 - cucumbers 3285
 - tomatoes 1457, 2308, 3285, 6933
- Uncinula necator*, grapes 4921, 4924
- Venturia inaequalis*, apples 7480
- Verticillium dahliae*, aubergines 6906
- weeds
 - grapes, books 2789
 - lemons 8057
 - lettuces 7686
 - temperate fruits, books 2789

Integrated control cont.

- weeds cont.
 - tomatoes 8658
- Intercropping**
 - Amaranthus tricolor* 8715
 - Areca* 6389
 - Areca catechu* 6373
 - bananas 880, 5457, 8715
 - broccoli 1326
 - cabbages 7710, 10433, 10489
 - Capsicum* 36, 4214, 5074, 5994, 5999
 - cocoa 1838, 6389
 - coconuts 2689, 3655, 5471, 6373
 - Curcuma longa* 7324, 7990
 - Cymbopogon* 9830
 - Cymbopogon martinii* 5310
 - essential oil plants 2526, 3655
 - fennel 9440-9441
 - Gentiana scabra* 8032
 - guavas 7324
 - Hevea* 6441
 - mangoes 7324, 10950
 - medicinal plants 3655
 - Mentha* 9830
 - oil palms 1838
 - onions 9440-9441
 - pawpaws 7324
 - peas 7324
 - Phaseolus vulgaris* 5457, 10489
 - Pleurotus ostreatus* 36
 - Pyrus* 2756
 - radishes 7324
 - tea 2756, 6441, 10008
 - tomatoes 3263, 4214, 7798
 - Vicia faba* 3204
 - watermelons 36
 - Zingiber officinale* 1668
- Interstocks**
 - apples 1067, 1069, 1941, 3744, 4730, 4754, 8251, 8256-8257, 10102
 - apricots 1130, 10178
 - Citrus* 9879
 - pears 10229
 - Prunus* 3744
 - temperate fruits 78
- Inula helenium*, cultural methods, Italy 355
- Iochroma cyaneum*, cultural methods, Germany 4420
- Iodine**
 - fertilizers
 - Brassica* 9478
 - strawberries 9478
 - plant nutrition, cress 7713
- Ionopsis*, taxonomy, nomenclature 7056
- Ipomoea* (see also *Pharbitis*)
 - stomata, development, anatomy 6998
- Ipomoea aquatica*
 - production possibilities, Italy 4264
 - protected cultivation
 - microclimate 4012
 - temperature 5772
 - seeds, morphology 7167
 - soilless culture
 - nutrient solutions, temperature 4012, 5772
 - plant nutrition 5772
- Ipomoea carnea*
 - reviews 6098
 - seeds, morphology 7167
- Ipomoea horsfalliae*, stomata, development, anatomy 6998
- Ipomoea macrorrhiza*, roots, histology 5340
- Ipomoea orizabensis*, roots, histology 5340
- Ipomoea pes-caprae*, seeds, morphology 7167
- Ipomoea purga*, roots, histology 5340
- Ipomoea sepiaria*, seeds, morphology 7167
- Ipomoea tricolor*
 - flowers, biochemistry, assessment 8758
 - plant nutrition, nitrogen 5173
 - shade, responses 5173

Iran

- cherries, cultivars 8327
- olives, cultivars 6359
- onions, production 5805

Iridoids

- biosynthesis, *Nepeta racemosa* 7144
- characterization, *Thunbergia grandiflora* 8781
- composition
 - Physostegia virginiana* 4314

Iridoids cont.
composition cont.
Plantago lanceolata 4466

Idomyrmex
oranges 1731
pollinators, *Blandfordia grandiflora* 7904

Iris
books 8180
bulbs, storage, systems 626
cut flowers
plant water relations 6128
preservatives 6128
responses
plant growth regulators 10646
water stress 10646
plant, composition 6522
research, Netherlands 8201

Iris barbatula, taxonomy, new taxa 1565

Iris collettii, taxonomy, new taxa 1565

Iris cuniculiformis, taxonomy, new taxa 1565

Iris dolichosiphon, taxonomy, new taxa 1565

Iris pallida, *in vitro* culture, propagation, micropropagation 4322

Iris sanguinea, cultivars, ornamental value 9703

Iris sibirica, cultivars, ornamental value 9703

Irish Republic, *Gloxinia sylvatica*, cultural methods 2412

Iron
application methods, apples 1081
biochemistry, tomatoes 2309
composition
apples 7473
bananas 9935
coffee 9029
edible fungi 1497
Hibiscus 9428
Ilex paraguariensis 10788
Juglans 10261
mangoes 1836
Oenothera biennis 1688
Oenothera paradoxa 1688
olives 3620
Osmunda japonica 1497
persimmons 4561
Rubus 1196, 9348
Syzygium jambos 9110
Talinum triangulare 6968
vegetables 9428
walnuts 8392

deficiency
apples 108
cabbages 5005
Capsicum 5997
carnations 598
cauliflowers 5005
Citrus 3589, 8946
cucumbers 2205, 5896, 7734
fruit crops 65, 1060
grapes 1240, 5752, 10332
kiwifruits 5698
lemons 6330
lettuces 1312
Malus 1103, 2889
olives 6358
onions 6494, 6754
peaches 175, 2957-2958, 5658-5659, 9285
pears 2983, 5659
Phaseolus vulgaris 2231
Pyrus 2968
quinces 1180-1181, 2983
radishes 5005
Rhododendron 4400
Tagetes erecta 7888
tomatoes 3293

determination
dates 4537
guavas 2717

fertilizers
Citrus 4509
cucumbers 4139
gooseberries 4874
lettuces 1311
mandarins 5381
onions 7670
oranges 2594
peaches 2958-2959

Iron cont.
fertilizers cont.
peas 4139
roses 8862
spinach 1294
Ziziphus mauritiana 966

metabolism
aluminium, tea 4645
biochemistry, *Rosa roxburghii* 4403
cadmium, cabbages 7708
cultivars
lemons 6313
oranges 6313
cultural methods, peaches 9291
development, carambolas 6464
fertilizers
apples 2885
melons 6416
fruiting, mangoes 1827
in vitro culture, cucumbers 4129
irrigation, pomegranates 10898
mycorrhizas
cherries 1132
Vaccinium macrocarpon 5710
nitrogen
peaches 2954
pears 2954
plant growth regulators, pomegranates 10898
potassium, apples 4772
rootstock scion relationships
grapes 8465
lemons 6313
oranges 3584, 6313
peaches 3844, 5654-5655
salinity, grapes 8459
seasonal variation
Asparagus 3226
grapes 3038, 3053
olives 10883
Protea 741
walnuts 8391
Ziziphus sativa 11016
sex, spinach 8523
soil pH, *Vaccinium* 1200
temperature, mangoes 4630
titanium, *Capsicum* 5996
zinc, *Hibiscus rosa-sinensis* 1648

plant nutrition
apples 6561
apricots 9238
blackberries 10279
Brassica campestris 10445
Brassica chinensis 10445
Capsicum 5996
cashews 1794
chrysanthemums 3392
cucumbers 4139, 9509
dates 7231
grapes 5752
Hebe 3505
kiwifruits 5698
lettuces 2165, 9465
Malus micromalus 6559
mandarins 4506, 5381
olives 863, 8100
peaches 5655
peas 4139
Rosa damascena 7148
spinach 2165
tea 4645
tomatoes 4226

requirements
analysis
apples 8279
cherries 2935
grapes 6704
Litchi 10876
peaches 5659
pears 5659

responses, lettuce 9465

toxicity
lawns and turf 10670
lettuces 2165
Pelargonium hortorum 1545, 4291
Pentas lanceolata 4426
spinach 2165
Tagetes erecta 7887
Tagetes patula 9692

translocation
apples 1081

Iron cont.
translocation cont.
Phaseolus vulgaris 2231
tomatoes 5113

uptake
Andrographis 5332
apples 1081
Brassica 1332
Cassia senna 8027
Cleome droserifolia 8027
cucumbers 5895
guavas 6425
lemons 6313
lettuces 375
oranges 6313
peaches 1149, 5655
pears 2983
quinces 2983
Vitis 3976

Irradiation
gamma radiation
Agaricus campestris 572
Alpinia purpurata 5204
carnations 5168
chrysanthemums 6096
clementines 8083
dates 10873
garlic 8504
grapefruits 4530, 5400
olives 2648
onions 2140
pawpaws 9064
roses 5168
walnuts 209
Zingiber officinale 7137

infrared radiation, mangoes 10977

ionizing radiation, strawberries 3027

ultraviolet radiation
apples 7515
Cosmos bipinnatus 3411
cucumbers 5026, 8581-8583
horticultural crops 8207
mandarins 7229
nectarines 9306
Pachycereus pringlei 8830
pears 1167
peas 444, 1395, 5973, 6027, 6867
Phaseolus vulgaris 4163
Portulaca grandiflora 4367
Rhododendron maximum 8855
Salvia splendens 7883
tomatoes 6027, 8581

Irregular bearing
assessment
avocados 806
carobs 7194
cultivars, mangoes 10970
cultural methods, mandarins 4520
fertilizers, mandarins 4520
fruiting, mandarins 2617
morphology, *Litchi* 8975
physiology
mandarins 7215
mangoes 3679
plant growth regulators
apples 1110, 4771
mandarins 4518-4520, 5393
plant nutrition, apples 2913
pruning, pistachios 3901
ringing, mandarins 4520
thinning
apples 1110, 8304
satsumas 4521

Irrigation
carbon dioxide
application
horticultural crops 7408
strawberries 244, 3940
tomatoes 8690
vegetables 9419

economics
apples 1078, 10115
avocados 6302
bananas 881
broccoli 6789
cauliflowers 6789

fertigation
apples 1078, 1956, 2885, 4766
avocados 7190
carobs 1711
cherries 6599

Irrigation cont.

fertilization cont.

- clementines 6327
- Epipremnum pinnatum* 4364
- horticultural crops, reviews 8220
- melons 1816, 8143
- peaches 9290
- strawberries 5731
- tomatoes 5095
- vegetables 3075

frequency

- Ageratum houstonianum* 6105
- apples 1956, 2885
- aubergines 2286
- cabbages 3141
- Capsicum* 3237, 3244
- cashews 1792
- cauliflowers 10435
- Coriandrum sativum* 4434
- cucumbers 418
- Cymbopogon flexuosus* 8008
- Gerbera* 8753, 10622
- Hibiscus rosa-sinensis* 6224
- lawns and turf 7034
- Litchi* 4538
- Mentha arvensis* 2530
- olives 3619
- Opuntia microdasys* 685
- ornamental woody plants 7072
- peas 440
- Petunia* 5177
- pomegranates 3630, 4562-4563
- Tagetes patula* 6256
- Thymus vulgaris* 3530
- tomatoes 505, 3266-3267, 5096
- Urginea maritima* 6291
- vegetables 3072
- Viola wittrockiana* 5177

insecticides

application

- Rhododendron simsii* 2482
- Schefflera venulosa* 2482

models, vegetables 6742

nematicides, application, *Cucurbita pepo* 1415

requirements

determination

- apples 1077, 5562
- Arachniodes adiantiformis* 3448
- aubergines 7783
- bananas 7273
- cabbages 4093
- Capsicum* 3236, 6918-6919
- celery 6326
- Citrus* 6326
- coffee 7297
- Corchorus tridens* 4261
- cucumbers 9507
- grapes 1236
- ground cover plants 6152
- Hevea* 941
- hops 5562
- kiwifruits 10266
- lawns and turf 2423, 4346, 4356, 6152
- lemons 7200
- lettuces 1309, 6779
- Leucadendron* 8882
- nectarines 3856
- olives 8098
- oranges 9885
- ornamental woody plants 2475, 7078
- peaches 3856, 6616
- pistachios 6638
- Poa pratensis* 6152
- Polianthes tuberosa* 10660
- Pyrus pyrifolia* 5676
- roses 8859
- stone fruits 7442
- strawberries 5727
- Tagetes patula* 6256
- tomatoes 4215, 5096, 5562, 6918-6919, 9585, 10546
- vegetables 3072, 6733-6734
- reviews 10361
- walnuts 2035
- watermelons 9964, 10933

responses

- apples 96, 226, 4793, 6552-6553, 8270, 9186

Irrigation cont.

responses cont.

- aubergines 3248
- avocados 795, 6303
- bananas 881, 9006
- black currants 226-227
- broccoli 6789
- cabbages 387, 2181
- Capsicum* 8625
- cashews 1792
- cauliflowers 6789
- Chamelaucium uncinatum* 1642, 2494
- Coriandrum sativum* 5301
- Cuminum cyminum* 1663
- grapes 266, 5751, 7614
- guavas 10941
- Jerusalem artichokes 10405
- kiwifruits 8395
- Lemnaicocereus queretaroensis* 2666
- lettuces 4987-4988
- mangoes 10954
- mushrooms 4269
- olives 862, 3618, 5425, 10881-10882
- onions 4040, 9443
- ornamental woody plants 4389
- peaches 2948, 5660, 8347, 9288
- pears 187, 1161, 8362, 10232
- Phaseolus vulgaris* 1375
- Phytolacca dodecandra* 9843
- plums 8381
- poisettias 4396
- pomegranates 4562-4563, 10898
- raspberries 4878
- red currants 227
- strawberries 8428
- tomatoes 502-504, 3265, 6031, 7801, 9584
- Vaccinium ashei* 3923
- vegetables 4091

systems

- apples 1950, 5606, 6554, 7468, 9186
- apricots 156
- Astilbe chinensis* 5281
- broccoli 4092
- cabbages 3141
- Capsicum* 8625, 8643
- Caryopteris clandonensis* 5281
- chrysanthemums 9663
- Citrus* 825
- Cotoneaster dammeri* 8873
- cucumbers 5892
- Cymbopogon winterianus* 10760
- Forsythia ovata* × *Forsythia europaea* 8873
- garlic 1275
- grapes 3036, 6682, 8460
- greenhouse crops 2816
- kiwifruits 7558
- lawns and turf 9645
- lettuces 4987, 4991
- Lilium longiflorum* 1566
- melons 2704, 6415
- Moringa oleifera* 8717
- olives 3618, 6361
- oranges 7202
- ornamental plants 9645
- ornamental woody plants 4428
- peaches 5656, 6617-6618, 9290
- pecans 199
- planting stock 2812
- spinach 4092
- strawberries 5727, 8428
- tomatoes 501, 3270, 6917, 7801, 8643, 9581
- vegetables 3072, 6735

water

composition

- Crossandra infundibuliformis* 8874
- grapes 2088
- mushrooms 3344, 9630-9631
- magnetism, melons 2703

salinity

- Annona squamosa* 6372
- aubergines 2285-2286
- avocados 796
- bananas 8121
- citranges 8064
- Coriandrum sativum* 7139
- cucumbers 400
- Enteromorpha clathrata* 1698

Irrigation cont.

water cont.

salinity cont.

- fennel 10751
- grapefruits 8063
- grapes 2077, 8459
- mandarins 8064
- mangoes 6429
- olives 10887
- onions 3092, 6752
- oranges 8063
- peaches 3849, 3857, 5660
- pineapples 5505
- pistachios 2980
- Plantago ovata* 9857
- sour oranges 7201
- spice plants 10745
- tomatoes 2298, 3266, 5101

sources

- bananas 1785, 9007
- Impatiens walleriana* 7876
- lawns and turf 9645
- lettuces 4989
- nectarines 4832
- oranges 1723, 4499
- ornamental plants 9645
- Pyracantha* 1656
- radishes 4989
- tomatoes 2298
- vegetables 2111, 5773
- temperature, strawberries 3025

Irvingia gabonensis, production possibilities, Gabon 5552**Isochrysis**, plant, biochemistry, temperature 5347**Isolite**, utilization, growing media, ornamental woody plants 6185**Isoptera**, mangoes 4625**Israel**

avocados

- cultivars 2580
- production 5358

cut flowers

production

- Chamelaucium uncinatum* 4302
- Gypsophila paniculata* 4302

research 4302

Gundelia tournefortii

wild plants

- conservation 5853
- utilization 5853

Litchi, production 2632, 5417

olives, cultivars 2647

ornamental plants

- marketing 1511
- production 1511
- research 1511

Simmondsia chinensis, production, reviews 4468*Uva lactuca*, cultural methods 6299*Vicia faba*, cultivars 5952**Italy**

apples

- cultivars 83, 2858, 7452
- cultural methods 4724
- disease control 7447
- production 3759
- rootstocks 4756

apricots

- diseases, surveys 205
- rootstocks 4808

Arctium lappa, cultural methods 355*Asparagus*

- cultivars 4179-4180, 6879
- hybrids 7762

aubergines, research 468

Capparis spinosa, pests, surveys 7987*Capsicum*, research 468

chicory

- cultivars 4069
- cultural methods 355

Cycas revoluta, disease control 7967

dye plants, production possibilities 6251

fennel, cultivars 6053

fruit crops

- cultural methods 6514, 8200
- pest control 6514

Gladiolus, cultivars 634

globe artichokes, cultivars 353, 5842

grapes

- cultivars 1223-1224, 5746, 9378

- Italy cont.**
 grapes *cont.*
 cultural methods 5755
 disease control 6532, 9412
 pest control 3055-3056, 6532, 9412
 surveys 7595
Inula helenium, cultural methods 355
Ipomoea aquatica, production possibilities 4264
 Jerusalem artichokes, cultural methods 355
 lawns and turf
 cultural methods 8798
 disease control 5212, 7913
Luffa aegyptiaca, cultural methods 4133
 nectarines, cultivars 5651, 9280
 olives
 cultivars 2641, 2644, 6356, 9905-9907
 economics 8094, 8982
 onions, cultivars 2128
 Orchidaceae, surveys 9754
 ornamental plants
 disease control 585
 production 1512
 research 1512
 peaches
 cultivars 1996, 2946, 3834, 9280, 10205-10206
 disease control 3864, 7447, 9295
 pest control 3864
 peaches × almonds, rootstocks 6614
 pears
 disease control 6629, 7447
 rootstocks 4841
Phaseolus coccineus, cultivars 5927
 plums
 diseases, surveys 205
 rootstocks 1177, 4854
 pome fruits, disease control 4720
 stone fruits
 disease control 4719, 9163
 pest control 3749
 strawberries, cultivars 2054-2055, 3013, 3932-3933, 5714-5716, 6667-6669, 10289
 tamarillos, cultivars 2665
 temperate fruits
 disease control 6532
 pest control 6532
 production 8232
 tomatoes
 cultivars 6004-6005
 disease control 6929
 economics 486
Tuber, cultural methods 581
Tuber albidum, cultural methods 6077
Tuber melanosporum
 climate 582
 marketing 582
Vicia faba, cultivars 5953
 wild plants, edible species 1020
- Ivies (see *Hedera*)**
Ixia
 cut flowers
 preservatives 659
 vase life 659
Ixodia achillaeoides
 flowers
 development
 photoperiod 7112
 temperature 7112
- Ixora**
 fertilizers, potassium 7072
 irrigation, frequency 7072
- Jacaranda mimosifolia**
 planting stock, production, containers 2467
 roots, development, cultural methods 2467
- Jackfruits**
 air layering, treatment 2671, 5451, 8113
 bark, composition 1777
 fruits, characteristics 7267
 grafting, rootstocks, assessment 8112
 pollen
 germination, tests 5452
 viability, tests 5452
 products, pectins 1774
 roots, composition 1776
- Jackfruits cont.**
 seeds
 biochemistry 8114
 germination
 seed treatment 7266
 storage 7266
 storage, physiology 2668
Jamaica, coffee, production 9025
Janetiella oenophila, grapes 287
- Japan**
 apples
 cultivars 1930
 cultural methods 75, 5602, 6544
 production 75
 cabbages, pest control 6794
Citrus, economics 5361
 edible fungi, wild plants, utilization 4005
 fruit crops
 production 75
 research 25
 lawns and turf, cultivars 7907
 melons
 climate 9038
 cultivars 9038, 10931
 production possibilities 9038
 onions, cultivars 4033
 oranges, cultivars 8940
 Orchidaceae, wild plants, conservation 9752
 peaches, cultivars 10208
 persimmons, cultivars 869, 8991
 plums, cultivars 10250
 pummelos, production 8959
 satsumas, cultivars 10825
 strawberries
 cultivars 240
 cultural methods 3946
 tangors, cultivars 9872
 tea
 cultivars 9088
 plant nutrition, surveys 5513
 tomatoes, cultivars 10541
 Vaccinium
 cultural methods 7572
 research 7572
 vegetables, wild plants, utilization 4005
- Japanese pears (see *Pyrus pyrifolia*)**
Jasminum
 fruits, anatomy 1625
 taxonomy, anatomy 1625
Jasminum auriculatum
 fertilizers
 nitrogen 7953
 phosphorus 7953
 potassium 7953
 pruning, seasons 7953
Jasminum grandiflorum
 cuttings
 rooting
 histology 5263
 seasonal variation 5263
 treatment 5263
Jasminum multiflorum, pest control, *Hendecasis duplifascialis* 9776
Jasminum nudiflorum
 fruits, anatomy 1625
 taxonomy, anatomy 1625
Jasminum polyanthum, flowers, fragrance, biochemistry 10608, 10756
Jasminum sambac
 flowers
 composition 7081
 fragrance, biochemistry 10756
 planting, spacing 717
 propagation, techniques 9775
- Jatropha curcas**
 in vitro culture, propagation, micropropagation 8930
 production possibilities, India 7183
 soil types 6293
- Jerusalem artichokes**
 cultivars
 assessment
 France 8524
 Morocco 8524
 cultural methods, Italy 355
 grafting, unions, histology 4680
 harvesting, harvesting date, assessment 2152
 in vitro culture
 biochemistry 8525
- Jerusalem artichokes cont.**
 in vitro culture *cont.*
 metabolites, production 54
 irrigation, responses 10405
 leaves, biochemistry 352
 products
 alcohols 4064
 sugars 2152, 8524
 tubers
 composition 4983
 development, biochemistry 2152, 6775
- Jojoba (see *Simmondsia chinensis*)**
Jordan
 olives, cultivars 2647
 tomatoes, cultivars 10537
 wild plants, edible species 4004
- Jovibarba heuffelii**, taxonomy, chemotaxonomy 4359
- Juglans (see also Walnuts)**
Juglans cinerea, nuts, composition 10261
- Juglans nigra**
 fertilizers, nitrogen 10258
 in vitro culture, somatic embryogenesis 2033
 nuts, composition 10261
 seedlings, development, assessment 10254
- Juglans nigra × walnuts**, plant, development, assessment 5693
- Juniperus**
 pest control, Coleoptera 1622
 weed control 1522
- Juniperus chinensis**
 fertilizers 7950
 herbicides, injuries 8844
 irrigation, requirements, determination 7078
 planting stock, production, containers 7950
- Juniperus communis**, taxonomy, nomenclature 5329
- Juniperus horizontalis**, irrigation, requirements, determination 7078
- Juniperus procumbens**
 cuttings
 cultural methods 2477
 treatment 2477
- Juniperus prostrata**, herbicides, application methods 3470
- Juniperus sabina**
 fertilizers 7950
 planting stock, production, containers 7950
- Juvenility**
 anatomy, *Cupressocyparis leylandii* 9773
 cultural methods, olives 8102
 cuttings, *Acacia* 9794
 cytology, olives 8101
 in vitro culture, grapes 294
 physiology
 ornamental woody plants, reviews 3472
 peaches 1155
 plant growth regulators, oranges 7211
 propagation, grapes 7627
- Kakothrips pisivorus**, peas 3222
- Kalanchoe**
 pot plants
 production, cultural methods 3451
 storage 10607
- Kalanchoe blossfeldiana**
 in vitro culture, organogenesis 8826
 leaves
 abscission
 physiology 2433
 plant growth regulators 7922
 plant growth regulators, methyl jasmonate, responses 2433
 protected cultivation, heating systems 2371
- Kalanchoe daigremontiana**
 circadian rhythm 5241-5242
 leaves, biochemistry 1527
 photosynthesis, CAM pathway 5241-5242
 protoplasts, biochemistry 7047
- Kalanchoe fedtschenkoi**
 mitochondria, biochemistry 5243
 photosynthesis, CAM pathway 5243

Kalanchoe marmorata

- flowers
- development
- photoperiod 683
- plant growth regulators 683

Kalanchoe pinnata, buds, development, models 3452**Kale**

- cultivars
- assessment, USA 592, 6991
- composition 7696
- morphology 7696
- disease control, *Xanthomonas campestris* pv. *campestris* 10448
- fertilizers
- nitrogen 4091, 10362
- phosphorus 10362
- potassium 10362
- irrigation, responses 4091
- leaves, biochemistry, environment 391
- ornamental value 592, 6991
- pest control, *Myzus persicae* 5847
- plant, biochemistry, seasonal variation 8554
- pollution
- acid rain 8493
- cadmium 5042
- nickel 5042
- protected cultivation, systems, plastic tunnels 317
- seeds
- sowing, site preparation 7701
- treatment 10448
- soil amendments 325

Kalmia latifolia, planting stock, production, cultural methods 7091**Kampimodromus aberrans**, apples 5612**Kazakhstan**, *Inonotus obliquus*, ecology 9854**Keiferia lycopersicella**, tomatoes 10555**Kenya**

- coffee
- cultural methods 7299
- pest control 9032, 9034
- ethnobotany 1890
- Tanacetum cinerariifolium*, cultivars 9844
- tea
- climate 7352
- cultivars 3685, 7351
- research 6450
- wild plants
- taxonomy 1890
- utilization 1890

Kerria japonica

- pollution
- exhaust gases 10717
- lead 10717

Ketones

- biosynthesis, algae 4470
- composition
- Brugmansia candida* 10729
- kale 391
- swedes 391

Kiwifruits

- buds
- development, assessment 213
- dormancy
- cyanamide 8397
- temperature 216-217
- climate
- New Zealand 2989
- requirements 2989
- cold, responses 10268
- cultivars
- assessment
- Brazil 7405
- China 4864, 9333
- characteristics
- China 4865-4866
- France 9334
- pest resistance 1892
- pollination 10269
- cuttings
- rooting, seasonal variation 4867
- treatment 4867
- disease control
- Botryosphaeria* 2042
- Botrytis cinerea* 223, 7563, 9340
- Phomopsis* 2042
- disorders, chlorosis 5698

Kiwifruits cont.

- economics
- Chile 4675
- USA 4675
- fertilizers
- nitrogen 2992-2993, 3910
- phosphorus 2992-2993
- potassium 2992
- flowers
- anatomy 6644
- development, rootstock scion relationships 2995
- initiation
- assessment 4870
- models 8398
- forcing 217
- frost, resistance, assessment 3908
- fruits
- abscission, physiology 5577
- composition 878, 3915, 3917, 7559
- development
- biochemistry 3000, 4792
- cultural methods 3001
- parthenocarp 2040
- plant growth regulators 2040
- shade 219
- mechanical properties
- measurement 60, 6646, 10276
- storage 60
- position, assessment 8399
- quality
- cultural methods 224
- light 211
- position 8399
- shade 219
- storage 8401
- ripening
- biochemistry 218, 222, 540, 2998, 3915, 4792, 10274-10275
- physiology 2041, 5577
- plant growth regulators 2999
- temperature 222, 9338
- size
- assessment 10271
- plant growth regulators 7429, 10267, 10270
- pollination 2996
- grafting, unions, treatment 1894
- handling, injuries 8400
- harvesting, harvesting date, assessment 8401
- heat, responses 10268
- herbicides, injuries 9335
- in vitro* culture
- culture media 2988
- organogenesis 210, 2988
- propagation
- micropropagation 1186, 2811
- techniques 10265
- protoplasts 3912
- storage 2038
- insecticides, residues 3909
- irrigation
- requirements, determination 10266
- responses 8395
- systems 7558
- leaves
- biochemistry 8396
- composition 7559
- mycorrhizas 1187
- nutrients, requirements, assessment 2991
- pest control
- Coccoidea 7560
- Hemiptera 4868
- Lepidoptera 4868, 9336
- Metcalfa pruinosa* 1045, 4694
- Tortricidae 7560
- pesticides, residues 212, 7421
- photosynthesis
- flooded 214
- photoinhibition 215
- physiology 2994
- rootstock scion relationships 214
- plant
- development
- assessment 213
- physiology 3910
- sex, physiology 2994
- plant growth regulators
- benzyladenine, *in vitro* culture 2988
- cytokinins, *in vitro* culture 2988

Kiwifruits cont.

- plant growth regulators cont.
- forchlorfenuron, responses 220, 6645
- plant nutrition
- calcium 3917
- iron 5698
- phosphorus 1187
- plant residues, utilization, fodder 7564
- plant water relations, water stress 9337
- pollination
- compatibility 10269
- pollinators, Apidae 2997
- research 2996
- techniques 3914
- processing, techniques 9160
- production possibilities, Argentina 5357
- products
- carbohydrates 7541
- enzymes 3002
- fibre 7541
- protoplasts, isolation 3912
- pruning, seasons 2039, 2990
- reproduction, biology 6644
- roots
- biochemistry 8396
- development, assessment 68
- rootstock scion relationships, flowering 2995
- shade, responses 2039
- shading
- materials 211
- techniques 219
- soil pH, responses 10268
- soil water, responses 10266
- species, assessment, China 4864
- storage
- biochemistry 222
- disease control 2042, 7563
- diseases 223, 9340, 10273
- packing 221, 10272
- physiology 2998, 10273
- quality
- fertilizers 2993
- irrigation 8395
- light 211
- plant growth regulators 220
- plant nutrition 3917
- position 8399
- systems
- assessment 221, 3916, 9339
- cold storage 3917, 10272-10273, 10275
- controlled atmosphere storage
- 2041, 7562, 10275
- modified atmosphere storage 56, 221, 10272
- temperature 222
- treatment 1188, 2999, 7561
- translocation, source sink relations 3911
- transpiration, water stress 6643
- transport, systems, assessment 3916
- water stress, responses 6643, 9337, 10268
- Klebsiella planticola**, populations, rhizosphere, vegetables 322
- Kniphofia**, taxonomy, chemotaxonomy 5155
- Kochia scoparia**, as weeds, *Asparagus* 5990
- Kohlrabi**
- fertilizers
- nitrogen 4993, 5003, 8531
- phosphorus 4993, 8531
- potassium 4993, 8531
- handling, techniques, Vietnam 4702
- plant, composition 10368
- pollution
- caesium 5001
- fallout 5001
- reports, Belgium 1888
- seeds
- vigour
- cryopreservation 10424
- moisture content 10424
- shoots, cracking, assessment 388
- soil types 4993, 8531
- soiless culture
- nutrient solutions
- composition 7703
- pH 378
- Koleroga noxia**, coffee 9031

Korea Republic

- apples
 - cultivars 3765, 6540
 - pest control 2891
 - production 2805
 - Aster scaber*, cultural methods 2108
 - Bupleurum falcatum*, cultivars 10780
 - Capsicum*
 - cultivars 10523
 - production 10522
 - Cassia obtusifolia*, cultivars 10782
 - Cypripedium japonicum*, ecology 6172
 - Eleutherococcus senticosus*, climate 9852
 - Ganoderma lucidum*, cultural methods 3358
 - grapes, economics 1217
 - Lentinula edodes*, cultural methods 8733
 - Ligularia fischeri*, cultural methods 2108
 - melons
 - economics 4606
 - marketing 4606
 - Orchidaceae, diseases, surveys 695
 - Paeonia*, economics 4463
 - Pyrus pyrifolia*, cultivars 1158
 - Solidago virgaurea*, cultural methods 2108
 - Tricholoma matsutake*
 - climate 8737
 - production 9638
 - wild plants, edible species 3069, 5880
- Kuhlthassellia javanica**, geographical distribution 2447

Kumquats

- as rootstocks, mandarins 10831
- cultivars, disease resistance 4492
- in vitro* culture, organogenesis 6315
- leaves, colour, measurement 6320
- production, China 4490
- storage
 - systems, cold storage 845
 - treatment 845

Kyllinga elata

- as weeds
 - Citrus* 9884
 - mangoes 9884

Laburnum anagyroides, plant, canopy, assessment 6226**Lacanobia oleracea**, tomatoes 5107**Laccaria laccata**, mycorrhizas, *Cistus ladanifer* 1644**Lachenalia**, *in vitro* culture, storage 4335**Lachenalia arbuthnotiae**, *in vitro* culture, propagation, micropropagation 1576**Lachenalia bulbifera**, *in vitro* culture, propagation, micropropagation 1576**Lachenalia purpureo-caerulea**, *in vitro* culture, propagation, micropropagation 1576**Lactones**

- composition, *Brugmansia candida* 10729
- metabolism
 - harvesting date, peaches 182
 - ripening, apricots 10186
- storage
 - nectarines 185
 - peaches 182, 185

Lactuca (see also Lettuces)**Lactuca**, taxonomy, chemotaxonomy 8528**Lactuca indica**, manures 2161**Lactuca saligna**, taxonomy, cytotoxicity 8529**Lactuca serriola**

- as weeds
 - apples 1949
 - pears 1949
- taxonomy, cytotoxicity 8529

Lactuca virosa, taxonomy, cytotoxicity 8529**Laelia**

- breeding, intergeneric hybridization 1599
- taxonomy, nomenclature 998, 7056

Laelia autumnalis, shoots, composition 1609**Laelia cinnabarina**

- seedlings
 - development
 - in vitro* culture 7059
 - plant nutrition 7059

Laelia pumila, flowers, colour, biochemistry 4381**Laeliocattleya**, flowers, colour, biochemistry 4381**Laeliopsis**, books 7392**Laetisaria arvalis**, control, of *Rhizoctonia solani*, vegetables 326**Laetisaria fuciformis**, lawns and turf 669**Lagenaria siceraria**

- as rootstocks, watermelons 1813, 4607
- cultivars

- disease resistance 5890
- identification 2199

fruits

- composition 2199
- maturity, assessment 5036

leaves, composition 2199**pest control**, *Aphis gossypii* 3180**seeds**

- development, physiology 10480
- germination, seed treatment 10462
- quality, maturity 10480
- treatment 10462
- soil amendments 9428

Lagerstroemia

- frost, resistance, assessment 3469
- plant, development, plant growth regulators 2468

Lagerstroemia indica

- cuttings
 - rooting, growing media 7973
 - treatment 7973
- herbicides, injuries 2472, 8844-8845
- in vitro* culture, propagation, micropropagation 1650
- weed control 8845

Lagerstroemia indica × **Lagerstroemia**

- fauriei*
 - climate, USA 6227
 - planting stock, production, cultural methods 6227

Lagurus ovatus, dried flowers, production 9654**Laminaria abyssalis**, composition 3555**Laminaria digitata**

- in vitro* culture
 - callus, growth 3556
 - culture media 3556
 - responses, light 3556
- plant nutrition, nitrogen 3557

Lamium, as weeds, vegetables 320**Lamium amplexicaule**, as weeds, *Capsicum* 7773**Lampra festiva**, ornamental conifers 1622**Land**, utilization, India 6491**Landolphia heudelotii**, fruits, composition 8034**Landolphia senegalensis**, fruits, composition 8034**Landscaping**

- China, ornamental woody plants 3465
- historic buildings, ornamental woody plants 2460
- Hong Kong, ornamental woody plants 9767
- Japan, ornamental plants 5163
- models, ornamental woody plants 6184
- Netherlands, ornamental plants 1515
- parks
 - ornamental plants 1515
 - ornamental woody plants 2457
- reclaimed land, ornamental woody plants 1615
- refuse tips, ornamental woody plants 1615
- roadsides, ornamental woody plants 2462, 7070
- selection, ornamental plants 1516
- urban sites
 - Liquidambar styraciflua* 2509
 - ornamental plants 1515
 - ornamental woody plants 4385, 6182, 8842, 9767
 - books 5531

USA

- ornamental woody plants 707, 2455
- wild plants 2455

Lansium domesticum

- processing, residues 5522
- products, pectins 1774

Lantana camara

- characteristics 2506
- chromosomes 8881
- fertilizers, potassium 7072

Lantana camara cont.

- flowers
 - development
 - application methods 6228
 - plant growth regulators 6228
 - drop
 - oxygen 10737
 - plant growth regulators 10737
 - growth retardation, plant growth regulators 6228
 - irrigation, frequency 7072

Lanthanum, fertilizers, vegetables 5868**Lapeirousia laxa**, seedlings, movement, assessment 6136**Lapsana communis**, as weeds, vegetables 320**Larix**, plant extracts, application, *Pleurotus ostreatus* 10598**Lasius neoniger**, lawns and turf 8810**Latex**

- biochemistry
 - Apocynaceae 7947
 - Ficus elastica* 8047
 - Hevea* 946, 1845, 2750, 4642, 5508-5509, 9078, 9082

biosynthesis

- Hevea* 937, 6447, 9080
- Parthenium argentatum* 2575, 5353
- characterization, *Hevea* 8162
- composition, *Hevea* 949
- determination, *Parthenium argentatum* 10814

metabolism

- physiology, *Hevea* 947
- plant growth regulators, *Parthenium argentatum* 780

pressure

- Ficus elastica* 6446
- Hevea* 6446

production

- cultural methods
 - Hevea* 2743, 2748
 - Papaver somniferum* 10796
- translocation, *Hevea* 3683

Lathraea clandestina, characteristics 1553**Lathyrus**, ornamental value 1509**Latin America**, coffee, cultural methods 10923**Latitude**, responses, cashews 1790**Latvia**, *Syringa vulgaris*, cultivars 9777**Laurocerasus officinalis** (see *Prunus laurocerasus*)**Laurus nobilis**

- irrigation, responses 4389
- pest control, *Aonidia lauri* 736
- photosynthesis
 - biochemistry 7121, 7952
 - water stress 7121
- plant water relations, physiology 5287

Lavandula

- cultivars, characteristics, Australia 7113
- pest control, *Plastoscilaria perniciosia* 4390

Lavandula angustifolia

- cultivars, disease resistance 7114
- disease control, *Septoria lavandulae* 7114
- in vitro* culture, responses, ammonium 9829

planting, spacing 7143**pollution**, heavy metals 8011**rhizosphere**, microorganisms 2529**Lavandula intermedia**, *in vitro* culture, organogenesis 3258**Lavandula pinnata** × **Lavandula canariensis**, cultivars, characteristics, Australia 6263**Lavatera oblongifolia**, characteristics 10738**Lavender and lavandin** (see *Lavandula*)**Lawns and turf**

- climate, China 4355
- cultivars
 - assessment
 - Japan 7907
 - USA 5209, 8799
 - disease resistance 10664
 - herbicides 8806
 - identification 5214, 7908, 9719
- cultural methods
 - China 4345
 - golf courses 6140
 - Italy 8798

Lawns and turf cont.

- disease control 7912
 - Gaeumannomyces graminis* var. *graminis* 4351
 - Italy 5212, 7913
 - Laetisaria fuciformis* 669
 - Limonomyces roseipellis* 669
 - Puccinia* 2425
 - Pythium* 8809, 10671
 - Pythium graminicola* 10672
 - reviews 7423
 - Rhizoctonia solani* 2425, 9723
 - Sclerotinia homoeocarpa* 2425, 8808
- drought
 - resistance
 - assessment 10667
 - cultivars 666
- ecology
 - Fiji 2418
 - New Zealand 2418
- economics, USA 1580
- fertilizers
 - nitrogen 2419, 3445, 4347-4350, 5210-5211, 9723
 - potassium 4350
 - reviews 7423
- fogging, responses 7033
- frost, resistance, cultivars 4342, 10666
- fungicides
 - residues 8808
 - surfactants 8808
- grass clippings 3720
- growth retardation, plant growth regulators 10668
- herbicides
 - application methods 1581
 - injuries 668, 6141, 6148, 6151, 9720
 - responses 2422, 8806
 - tolerance 2421, 6150, 8807, 9720
- in vitro* culture, propagation, micropropagation 665
- inflorescences, development, plant growth regulators 9721
- irrigation
 - frequency 7034
 - requirements, determination 2423, 4346, 6152
 - systems 9645
 - water, sources 9645
- leaves, water, measurement 8797
- manures 9722
- mowing 1582, 2419, 7907, 8798
- nutrients, requirements, assessment 2423
- oversowing 5209, 8799
- parasitic plants, *Rhisanthus minor* 6142
- pest control 7912
 - Agrotis ipsilon* 4352, 9724-9725, 9729
 - Amphimallon majalis* 2427
 - Anomala schonfeldti* 4352
 - Ataenius* 8811
 - Cyclocephala lurida* 9726
 - Cyclocephala pasadenae* 1583
 - Hoplolaimus* 670
 - Lasius neoniger* 8810
 - Lepidoptera 5213
 - Parapediasia teterrella* 4352
 - Phyllopertha horticola* 10673
 - Popillia japonica* 9726-9728
 - Pyrilidae 9724-9725
 - reviews 7423
 - Schizaphis* 5213
 - Sphecius speciosus* 2426
 - Spodoptera depravata* 4352, 10674
 - Tylenchorhynchus* 670
- pesticides, residues 8812
- photosynthesis
 - carbon dioxide 4355
 - cultivars 4355
 - photoinhibition 6154
 - physiology 4355
- plant
 - anatomy 4354
 - development
 - assessment 4354
 - seasons 6139
 - temperature 10676
 - physiology 6153
 - plant growth regulators, alcohols, responses 1031

Lawns and turf cont.

- plant nutrition
 - nitrogen 6142
 - trace elements 10670
- plant water relations, irrigation 7034
- pollution, nickel 5863
- quality, assessment 1582, 2428, 3445, 4350, 4357, 7911, 8799
- research, USA 3441
- respiration, biochemistry 4162
- roots, development, cultivars 4353
- seeds
 - biochemistry 9719
 - germination
 - inhibitors 5210-5211
 - seed treatment 3442, 7909
 - mixtures 5214, 7908
 - production, cultural methods 8813
 - sowing
 - sowing date 2419
 - spacing 10665
- shade
 - responses 1579, 4344
 - reviews 4343
- soil amendments 10669
- soilless culture
 - growing media 5210-5211
 - nutrient solutions, composition 3444
- species
 - assessment
 - China 664
 - Germany 4341
 - plant competition 1580, 7910
 - surveys, USA 4340
 - translocation, source sink relations 8184
 - transpiration, measurement 4356, 10675
 - turves, production, cultural methods 2424
 - water stress
 - responses 7036
 - sex 7035
 - weed competition 7033
 - weed control 667-668, 2420-2421, 3443, 6141, 6143-6149, 8800-8805
 - books 1872
 - conferences 18
- Layering**
 - sources, assessment, apples 8253
 - techniques, apples 10099
- Lead**
 - composition
 - algae 8219
 - apples 8219, 8263
 - bananas 9935
 - Citrus* 8219
 - edible fungi 4265, 6969
 - essential oil plants 9815
 - fruit crops 9152
 - Gerbera* 8219
 - Hibiscus* 9428
 - lettuces 10412
 - medicinal plants 9815
 - Oenothera biennis* 1688
 - Oenothera paradoxa* 1688
 - Populus nigra* var. *italica* 740
 - spice plants 9815
 - Talinum triangulare* 6968
 - temperate fruits 10069
 - vegetables 4007, 9152, 9428
 - determination
 - dates 4537
 - plants 10064
 - metabolism
 - phosphorus
 - radishes 9493
 - spinach 9493
 - soil amendments
 - carrots 361
 - lettuces 361
 - responses, cucumbers 5895
 - toxicity
 - carrots 361
 - cucumbers 1355, 9509
 - lettuces 361
 - onions 2129
 - ornamental woody plants 10717
 - Papaver somniferum* 3550
 - plants 2129
 - translocation, cucumbers 5894
 - uptake
 - beetroots 2113
 - cucumbers 5894-5895

Lead cont.

- uptake cont.
 - lettuces 4077, 4941
 - radishes 6801
 - spinach 4941, 6801
 - Trigonella foenum-graecum* 4941
 - vegetables 325
- Leaf mould**
 - utilization
 - growing media
 - Cupressus sempervirens* 9772
 - Dendrobium nanum* 2439
 - Diplocentrum recurvum* 2439
 - Eria pauciflora* 2439
 - lawns and turf 5210
 - soil amendments, *Trigonella foenum-graecum* 2566
- Leaves**
 - abscission
 - biochemistry, tomatoes 1464
 - physiology
 - Capsicum* 5663
 - carambolas 11021
 - Kalanchoe blossfeldiana* 2433
 - peaches 5663
 - Pittosporum tenuifolium* 7119
 - plant growth regulators, *Kalanchoe blossfeldiana* 7922
- areas
 - assessment
 - apples 10109
 - cashews 5467
 - Crossandra infundibuliformis* 4416
 - Ficus benjamina* 3450
 - grapes 1247, 3994, 10109
 - guavas 4617
 - hazelnuts 3825
 - hops 10769
 - olives 5428
 - plants 2808
 - strawberries 10300
 - models, apples 4777
 - aroma, biochemistry, *Petasites japonicus* 6781
 - biochemistry
 - age
 - coffee 7307
 - Origanum majorana* 3526
 - passion fruits 10890
 - cropping systems, tea 2755
 - cultivars
 - grapes 10345
 - tea 2767
 - cultural methods
 - lettuces 8534
 - peaches 9291
 - disorders, oil palms 2728
 - diurnal variation, *Phaseolus vulgaris* 2238
 - environment
 - kale 391
 - swedes 391
 - fertilizers, *Cupressus sempervirens* 9771
 - flowering, *Perilla frutescens* 8038
 - fruiting
 - grapes 10345
 - peaches 176
 - light
 - Basella alba* 4260
 - Chinese cabbages 10442
 - Cupressus sempervirens* 9771
 - Digitalis purpurea* 6280
 - Erythroxylum* 8922
 - Ficus microcarpa* 2500
 - horticultural crops 4287
 - Ipomoea tricolor* 5173
 - Kalanchoe daigremontiana* 5241-5242
 - passion fruits 7253
 - Pharbitis nil* 4287
 - spinach 5840, 8501
 - tomatoes 5114
 - Vicia faba* 5960
 - measurement, *Syringa vulgaris* 7124
 - models, spinach 5840
 - photoperiod, spinach 4973
 - plant growth regulators
 - bananas 886
 - celery 10581

Leaves cont.

biochemistry cont.

plant growth regulators cont.

cucumbers 5911

figs 2944

lettuces 9466

plant nutrition

apples 1957

Capsicum 8628*Cucurbita pepo* 8501*Ipomoea tricolor* 5173

peas 8501

pollution, *Phaseolus vulgaris* 5043

salinity

oranges 1724

spinach 4973

Ziziphus rotundifolia 11018

seasonal variation

apples 2908

Leonurus quinquelobatus 766

satsumas 10854

Valeriana officinalis 766

soil management, apples 4764

stress, *Rhododendron* 10721

temperature

bananas 886

Capsicum 6000

cucumbers 5025

Erythroxylum 8922*Ficus microcarpa* 10689*Kalanchoe daigremontiana* 5241-

5242

tomatoes 5025

ultraviolet radiation

cucumbers 8582

peas 5973, 6027

tomatoes 6027

water stress, tomatoes 1461

colour

cultural methods, *Saintpaulia* 725fertilizers, *Chamelaucium* 8870measurement, *Citrus* 6320

plant nutrition, strawberries 10296

rootstock scion relationships, pecans

5680

species, *Cycas* 1645water stress, *Citrus* 8957

development

age, *Panax pseudoginseng* 7170

anatomy, mangoes 4629

assessment

apples 7488, 10126

bananas 5460

cashews 5467

grapes 3983

Tropaeolum peltophorum 4317

biochemistry

apples 5618

cocoa 6391

grapes 296

Mentha arvensis 5314*Phaseolus vulgaris* 4165, 10495

tea 11012

carbon dioxide, *Phaseolus vulgaris*

6849

cultivars

grapes 3983

melons 9037

cultural methods

Rosa chinensis 6203

roses 6203

strawberries 6674

Syringa vulgaris 6203

fertilizers

apples 10121

Brussels sprouts 1331

leeks 1282

spinach 1295

Viola odorata 9837

fruiting, apples 10126

light

chrysanthemums 1541, 3394

Clivia miniata 7027*Corchorus olitorius* 6056*Erythroxylum* 8922

lettuces 7683

Panax pseudoginseng 7170

models

chrysanthemums 1541

coffee 7302, 8137

Lilium longiflorum 6129**Leaves cont.**

development cont.

morphology, *Begonia dregei* 3424

phyllotaxy, passion fruits 10889

physiology

Magnolia biondii 8925

mangoes 4629

Moricandia arvensis 8779

plant growth regulators

Cyclamen persicum 3428*Gaillardia* 7006*Hosta plantaginea* 7875

onions 3093

peaches 2949

Vicia faba 5054*Viola odorata* 9838

plant nutrition

Brussels sprouts 10441

Phaseolus coccineus 2232salinity, *Gaillardia pulchella* 7007

shade, coffee 8137

soiless culture, melons 9037

temperature

chrysanthemums 1541

Clivia miniata 7027*Erythroxylum* 8922*Ficus microcarpa* 10689

ultraviolet radiation, peas 5973

water stress, peas 3217

wind, *Citrus* 5371

drop

fertilizers, *Chamelaucium* 8870

plant growth regulators

Capsicum 9682

grapefruits 10858

oranges 10858

salinity, avocados 796

water stress

apples 1102

tomatoes 8657

flavour

biochemistry, tea, reviews 7369

light, lettuces 7683

initiation

pruning, *Lüchi* 9900temperature, *Dendrobium nobile* 8840

injuries

carbon dioxide, *Capsicum* 2277cultivars, *Coleus blumei* 8821

cultural methods, apples 5677

fertilizers

apples 8307

tea 9095

light, *Coleus blumei* 8821

physiology, vegetables 1263

pollution

tomatoes 5093

vegetables 8493

responses, bananas 7272

rootstock scion relationships, avoca-

dos 791

salinity, avocados 796

wind, bananas 3647

mechanical properties, stress, tulips 1569

movement

assessment, spinach 4057

diurnal variation, spinach 4057

drought, olives 4550

histology, *Dionaea muscipula* 10683

light

Phaseolus vulgaris 3201, 5046

spinach 4057

position

photosynthesis

grapes 5761

mangoes 9055

physiology, kiwifruits 215

quality

assessment, tea 4647

cultural methods

Brassica chinensis 6784

spinach 8517

fertilizers

spinach 8518

tea 11007

maturity, tea 4649

seasonal variation, tea 9098

temperature, tea 10017

shape, models, *Begonia* 2401**Leaves cont.**

size

fertilizers

leeks 1282

spinach 1295

plant growth regulators, *Pyrus**pyrifolia* 2972

pruning, grapes 268

utilization

mulches, lawns and turf 2424

soil amendments, lawns and turf 2424

variegation, biochemistry, *Euonymus**japonicus* 9804

water, measurement, lawns and turf 8797

Leccinum aurantiacum, pollution,

radionuclides 3329

Leccinum rufum

pollution

cadmium 6969

copper 6969

lead 6969

Leccinum scabrum, composition 563**Lectins**

biochemistry

Hevea 945

jackfruits 8114

Phaseolus coccineus 427

characterization

Artocarpus hypargyreaus 2672*Arum maculatum* 655*Hericium erinaceus* 574*Laelia autumnalis* 1609*Phaseolus vulgaris* 8598

composition

Jerusalem artichokes 8525

Phaseolus coccineus 3202

responses, carrots 6043

Lecythis zabucaya, seeds, composition 9108***Ledebouria***, taxonomy, keys 8784***Ledum palustre***, ecology, Russia 2537***Leea coccinea***, pot plants, production, cul-

tural methods 5219

Leeks

bolting, temperature 4953

chloroplasts, biochemistry 4029

cultivars

assessment

Belgium 2123, 7660-7662

Russia 5788

bolting 4953

disease resistance 9430

disease control

Europe 10366

Phytophthora porri 9430*Puccinia allii* 5792, 9430

fertilizers

calcium 9435

nitrogen 1282, 8498, 9435, 10439

phosphorus 9435

potassium 9435

sulfur 9435

in vitro culture, somatic embryogenesis

4952

leaves

biochemistry 4028

development, fertilizers 1282

manures 4095

mycorrhizas 2124, 5791, 6748

organic culture 4095

pest control

Europe 10366

Thrips tabaci 341, 7664

plant

biochemistry 5794-5795, 9436

cytology 3087

plant nutrition, nitrogen 7663, 10439-

10440

pollution

exhaust gases 4007

heavy metals 4007

production, Tanzania 5804

reports, Belgium 1017, 1884, 7402

research, Netherlands 8201

roots

biochemistry, mycorrhizas 2124

development, assessment 10373,

10451

seedlings

biochemistry 4030, 5796

cytology 5793

production, cultural methods 1281

Leeks cont.

- seeds, germination, tests 1260
- soil amendments 2145, 8497
- soilless culture
 - cultivars 5789
 - nutrient solutions, composition 5790
 - systems, hydroponics 5789-5790
- taxonomy, reviews 5532
- weed control 1035, 10366

Leguminosae (see Fabaceae)***Lema fulvimana*, *Elettaria cardamomum* 7991*****Lemaireocereus queretaroensis***

- irrigation, responses 2666
- reproduction, biology 2666

Lemons

- as rootstocks, limes 10833
- chloroplasts, ultrastructure 6330
- cultivars, disease resistance 4492
- cuttings, treatment 1714
- disease control
 - Penicillium digitatum* 2623
 - Xanthomonas campestris* pv. *citri* 7208

disorders

- blight 8949
- chilling injury 7223, 7225
- chlorosis 6313, 6330

fertilizers

- nitrogen 7204
- zinc 7205

flowers, biochemistry 3602**fruits**

- composition 6345
- cracking
 - anatomy 9894
 - physiology 10860
- in vitro* culture 5390
- quality
 - assessment 10868
 - biochemistry 4522
 - fertilizers 7204
- ultrastructure 7223

herbicides

- residues 3612
- responses 1722

***in vitro* culture**

- biochemistry 9892
- histology 5390

irrigation, requirements, determination 7200**leaves, biochemistry 3602****pest control**

- Linepithema humile* 8072
- Phyllocnistis citrella* 5385
- Saissetia oleae* 1728

plant

- development
 - carbon dioxide 2613
 - temperature 2613
- morphology 2613
- plant growth regulators, alcohols, responses 1031
- plant nutrition, iron 6313, 6330
- plant water relations
 - irrigation 7200
 - measurement 2614
- planting, systems 10905
- rootstock scion relationships
 - plant nutrition 6313
 - yields 8941, 9875
- seeds, biochemistry 833
- soil pH, responses 8949

storage

- biochemistry 7225
- disease control 2623, 8082
- diseases 846
- disorders 7223, 7225
- physiology 7223
- treatment 846, 7225
- wrappings 8082
- taxonomy, cytotoxonomy 4491
- weed control 8057
- windbreaks 7208

Lentinula edodes

- biochemistry 2358-2359
- browning 9632
- composition 5149, 6068, 6972, 8722
- cultivars, identification 6978-6979
- cultural methods
 - Korea Republic 8733

***Lentinula edodes* cont.**

- cultural methods cont.
 - Taiwan 2357
- fructification 562, 6067, 9633
- growing media
 - composition 2334, 6069, 7853, 8730
 - utilization 2360, 3361
- in vitro* culture, metabolites, production 3332
- insecticides, residues 2356
- mycelium, growth 562, 575, 8731, 8733
- plant growth regulators
 - gibberellins, responses 1504
 - IAA, responses 1504
 - IBA, responses 1504
- production
 - containers 1505
 - South Africa 2336
- respiration, cultural methods 3362
- spawn, production 3360-3361, 6067

Lentinus cladopus

- in vitro* culture, mycelium 3363
- nutritive value 3363

Lentinus lepideus*, growing media, composition 6070**Lentinus squarrosulus***

- in vitro* culture, mycelium 3363
- nutritive value 3363

Leochilus*, taxonomy, nomenclature 7056**Leontopodium alpinum*, *in vitro* culture, propagation, micropropagation 9689*****Leonurus quinquelobatus***

- leaves, biochemistry, seasonal variation 766
- plant, development, assessment 765

Lepanthes

- cultural methods, UK 1610
- taxonomy, new taxa 700

Lepanthes davidsei*, taxonomy, new taxa 9753**Lepanthes dichroma*, taxonomy, new taxa 9753*****Lepanthes dolabriformis*, taxonomy, new taxa 9753*****Lepanthes lappacea*, taxonomy, new taxa 9753*****Lepanthes orbella*, taxonomy, new taxa 9753*****Lepanthes similis*, taxonomy, new taxa 9753*****Lepanthes valerioi*, taxonomy, new taxa 9753*****Lepidium* (see also Cress)*****Lepidoptera***

- apples 1961, 3790, 8297
- cabbages 385, 2184, 7711, 9482
- Capsicum* 10529
- cauliflowers 3079
- kiwifruits 4868, 9336
- lawns and turf 5213
- temperate fruits 67

Lepidosaphes beckii*, *Citrus* 2610**Lepidosaphes piperis*, *Piper nigrum* 4441*****Lepiota procera*, pollution, heavy metals 4265*****Lepista nuda***

- aroma 8734
- composition 563, 8734
- cultivars, characteristics, France 6980
- pollution, heavy metals 4265

Leptinella dioica*, as cover crops, apples 9185**Leptinotarsa decemlineata*, tomatoes 1458*****Leptodontium elatius*, apples 5610*****Leptomastix dactylopii***

- control
 - of *Planococcus citri*
 - Citrus* 2609, 5386
 - guavas 3674

Leptospermum*, cultivars, characteristics, Australia 9642**Leptospermum lanigerum*, cultural methods, UK 2507*****Leptosphaeria coniothyrium*, raspberries 1193****Lettuce big-vein virus, lettuces 1314, 2166****Lettuce mosaic potyvirus, lettuces 3130****Lettuce ring necrosis virus, lettuces 1314****Lettuces**

- allelopathy 1308, 3126, 7685, 8920
- buds, development, physiology 7694
- chloroplasts
 - biochemistry 370, 3132, 4079, 5849

Lettuces cont.**chloroplasts cont.**

- composition 6740
- physiology, inhibitors 369
- cover crops, responses 9424
- cropping systems
 - ratooning 368
 - rotations 5134
- cultivars
 - assessment
 - Brazil 7405
 - Germany 4984
 - characteristics, Australia 4985
 - disease resistance 367, 2166, 4071
 - disorders 4078
 - identification 8528
 - pest resistance 4082
 - plant nutrition 1312

disease control

- Bremia lactucae* 366, 1313
- Fusarium oxysporum* 8530
- lettuce big-vein virus 1314
- lettuce mosaic potyvirus 3130
- lettuce ring necrosis virus 1314
- Microdochium panattonianum* 8536
- Sclerotinia sclerotiorum* 5846

disorders

- butt discoloration 9467
- russet spotting 7694, 9466
- tipburn 4078, 10419

economics

- Germany 5767
- UK 1258

fertilizers

- iron 1311
- magnesium 1311
- nitrogen 364, 1309-1311, 2163, 2170-2171, 2173-2174, 3128, 4075, 4987-4988, 4993-4994, 7695, 8531, 8533, 9461, 9463-9464
- phosphorus 4941, 4993-4994, 8531, 9461
- potassium 4993-4994, 8531
- trace elements 7689

growing media

- amendments 2159, 2813, 10418
- composition 2162, 2813

hail, injuries 315**heat, resistance, physiology 4080****herbicides**

- injuries 7687
- tolerance 3071

humidity, responses 2163***in vitro* culture**

- culture media 9420
- protoplasts 2168
- techniques 5557

insecticides, residues 8537**irrigation**

- carbon dioxide, application 9419
- requirements, determination 1309, 6779
- responses 4988
- systems 4987
- water, sources 2111, 4989

leaves

- biochemistry
 - cultural methods 8534
 - plant growth regulators 9466
- composition 2118, 7693, 8538
- development, light 7683
- flavour, light 7683
- injuries, physiology 1263
- physiology 5848, 6787, 7694
- manures 2162, 4941, 9464, 10412
- mulching
 - materials 4073
 - responses 9424
- mycorrhizas 4074, 4692, 4992, 9461, 10548
- nutritive value 7653
- pest control
 - Aphididae 1315, 3079
 - Gastropoda 1316
 - Liriomyza huidobrensis* 3079
 - Meloidogyne incognita* 4945
 - Myzus persicae* 5847
 - Nematoda 4945
- photosynthesis
 - assessment 3131
 - physiology 369-370

Lettuces *cont.*

- photosynthesis *cont.*
 - storage 1318
- plant
 - biochemistry
 - fertilizers 9461
 - measurement 7691-7692
 - mycorrhizas 9461
 - composition 371-372, 2171-2172, 3129, 4083, 4984, 5852, 7689
 - development
 - assessment 2167
 - models 2167
 - physiology 368
- plant growth regulators
 - alcohols, responses 1031
 - growth inhibitors, physiology 7685
 - reviews 9426
- plant nutrition
 - cadmium 2164, 3125, 4077
 - calcium 4997
 - copper 4077, 8535
 - iron 375, 1312, 2165
 - lead 4077
 - molybdenum 8532
 - nitrogen 6780, 7695, 8532
 - phosphorus 7688, 8535
 - selenium 4076
 - zinc 4077, 8535
- plant residues, utilization, fertilizers 5003
- plant water relations
 - mycorrhizas 4074
 - weed control 6778
- pollution
 - acid rain 1263, 9422
 - cadmium 3125, 10413
 - chromium 10413
 - exhaust gases 362, 1029
 - heavy metals 362, 10412
 - industrial wastes 7644
 - lead 361
 - nitrogen oxides 10411
 - peroxyacetyl nitrate 1029
 - radionuclides 1307, 2107, 4072
 - uranium 316
- production, USA 4934
- protected cultivation
 - disease control 7690
 - fertilizers 3128
 - microclimate 4012
 - pest control 7690
 - systems
 - plastic tunnels 10414-10415
 - row covers 318, 7684
 - temperature 5772
- reports, Belgium 1884
- research
 - climate 1262
 - Netherlands 8201
- roots
 - development
 - biochemistry 5850
 - cultural methods 4991
 - plant extracts 4081
 - physiology 365
- salinity, responses 7688
- seedlings
 - development
 - allelopathy 1308
 - cultivars 1308
 - emergence, seed treatment 10408
- production
 - cultural methods 6777
 - energy requirements 6498
 - labour requirements 6498
- seeds
 - composition 1265
 - germination
 - allelopathy 3126
 - biochemistry 1305, 2158
 - growing media 2157
 - physiology 1305
 - plant growth regulators 2158, 10409-10410
 - salinity 2157
 - seed treatment 1306, 3124, 10409
 - temperature 2158, 4986
 - quality, assessment 5851
 - treatment 9449, 10408
- shade, responses 363, 10415

Lettuces *cont.*

- soil amendments 325, 361, 2113, 2160, 3125, 8497, 9427, 9462, 10418
- soil salinity, responses 3077
- soil solarization 1267, 4945, 7686
- soil types 4993, 8531, 10412
- soilless culture
 - cultural methods 4991
 - disease control 1314, 4990, 8530
 - growing media 9459
 - nutrient solutions
 - composition 3074, 4995-4996, 9465, 10419
 - pH 3074
 - temperature 1328, 3074, 4012, 4995-4996, 5772, 6787
 - plant nutrition 364-365, 2165, 3129, 4997, 5772, 8532
 - responses 3129
 - systems
 - hydroponics 6736-6737, 10416-10417
 - nutrient film techniques 374-375, 10417
 - water relations 3127
- storage
 - biochemistry 1317
 - packing 2169, 10420
 - physiology 1318, 7694, 10079
 - precooling 373
 - scrubbers, ethylene 2169
 - systems, controlled atmosphere storage 10079-10080
 - temperature 1317, 2169
 - treatment 9467
 - wrappings 373
- taxonomy, cytotoxonomy 8529
- transpiration
 - irrigation 6779
 - storage 1318
 - water stress, responses 4992
 - weed competition 9458
 - weed control 1267, 6778, 7686-7687
 - wounds, biochemistry 1317
 - yields, pests 4082
- Leucadendron**
 - cut flowers
 - preservatives 2508
 - storage 2508
 - irrigation, requirements, determination 8882
 - nutrients, requirements, analysis 737
- Leucaena leucocephala**, utilization, shelter-belts 1825
- Leucanthemum maximum**
 - herbicides
 - injuries 6085
 - tolerance 6085
- Leucanthemum superbum**
 - flowers
 - initiation
 - photoperiod 9683
 - temperature 9683
- Leucanthemum vulgare**
 - flowers
 - initiation
 - photoperiod 4308
 - temperature 4308
- Leucas aspera**, geographical distribution 767
- Leucas cephalotes**, geographical distribution 767
- Leucas lavandulifolia**, geographical distribution 767
- Leucas stricta**, geographical distribution 767
- Leuchtenbergia principis**, seeds, germination, seed treatment 1586
- Leucinodes orbonalis**, aubergines 1426, 2117, 4201, 6003, 8640, 9568
- Leucochrysum fitzibbonii**
 - seeds
 - germination
 - light 594
 - seed treatment 594
 - temperature 594
- Leucojum aestivum**
 - plant, composition 2558
 - plant nutrition 2558
- Leucoptera malifoliella**, fruit crops 7479
- Leucospermum cordifolium**, seeds, germination, biochemistry 3508

- Leucospermum glabrum**, seeds, germination, biochemistry 3508
- Leucostoma cinctum**, stone fruits 9163
- Leveillula taurica**
 - Capsicum* 475, 3241
 - Trigonella foenum-graecum* 10803
- Liatris aspera**, characteristics 1577
- Liatris spicata**
 - cold, responses 10659
 - corms, production, cultural methods 5207
 - cut flowers, production, USA 1529
 - in vitro* culture, propagation, micropropagation 6137
 - pinching, responses 5207
 - planting, depth 10659
- Liberia, Hevea**, climate 1844
- Lichens**, ethnobotany, reviews 6528
- Light** (*see also* Dark; Photoperiodism; Shade)
 - absorption
 - Capsicum* 478
 - tomatoes 532
 - artificial light, tomatoes 5114
 - blue light
 - Adiantum capillus-veneris* 5220
 - algae 3556
 - broccoli 9743
 - celery 8712
 - Gaillardia pulchella* 10626
 - lettuces 7683
 - pears 1160
 - Phaseolus vulgaris* 2235, 3201, 5046
 - Portulaca grandiflora* 4367
 - Vicia faba* 5957
 - far red light
 - Achillea millefolium* 4452
 - avocados 3733
 - chicory 5845
 - cucumbers 3733
 - essential oil plants 9827
 - lettuces 3124, 7683
 - Mentha piperita* 4452
 - pears 1160
 - Pharbitis nil* 3397
 - Phaseolus vulgaris* 9528
 - Rosa multiflora* 2484
 - spinach 3733
 - interception
 - assessment
 - apples 1946, 1952, 4762, 4779, 6544, 10109
 - coconuts 897
 - grapes 3039, 3062, 10109, 10344
 - ornamental woody plants 2470
 - tomatoes 5116
 - canopy, *Laburnum anagyroides* 6226
 - models
 - apples 4777
 - fruit crops 3719
 - plant training
 - apples 2871, 4763
 - fruit crops 3719
 - planting, fruit crops 3719
 - thinning, grapes 6700
- light intensity
 - Achillea millefolium* 9677
 - algae 776-777
 - Alstroemeria* 1570
 - Amaranthus hypochondriacus* 5144
 - apples 8314
 - Basella alba* 4260
 - Brussels sprouts 10440
 - cabbages 5872
 - Capsicum* 6903
 - carnations 6088
 - celery 8712
 - Chinese cabbages 10442
 - chrysanthemums 6094
 - Citrus* 4496
 - coffee 7305
 - cucumbers 5016-5017, 10471
 - Cucurbita moschata* 9519
 - Cucurbita pepo* 10477
 - Cupressus sempervirens* 9771
 - Digitalis purpurea* 6280
 - Erythroxylum* 8922
 - Eucheuma denticulatum* 6296
 - Eustoma grandiflorum* 9685
 - Ficus microcarpa* 2500
 - grapes 5761, 8466
 - Haematococcus pluvialis* 1703

Light cont.

light intensity cont.

Heliconia psittacorum × *Heliconia*
spathocircinata 7029

Kalanchoe daigremontiana 5241

kiwifruits 215

leeks 10440

lettuces 7692

Lilium 8789

Litchi 1748

melons 4612

Nerine bowdenii 4330

Panax pseudoginseng 1689

pears 1167

peas 5975, 6866

Phaseolus vulgaris 2234, 10477

roses 7095

Schefflera arboricola 688

Spirulina platensis 10816

Stevia rebaudiana 5355

strawberries 5738

tomatoes 496, 1447, 5091, 5110,
6903

Ulva lactuca 6299

Vicia faba 5960

light transmission

apples 7465

Capsicum 478

plants 10070

tomatoes 532, 5116

measurement

greenhouses 2809

growth chambers 2809

natural light

ornamental woody plants 708-709

spinach 708

polarized light, vegetables 7643

quality

apples 91

chrysanthemums 3394

cucumbers 5017

Pachycereus pringlei 8830

tomatoes 6037

red light

Achillea millefolium 4452

Adiantum capillus-veneris 5220

algae 3556

broccoli 9743

celery 3319

chicory 5845

cucumbers 7738

essential oil plants 9827

Gaillardia pulchella 10626

lettuces 2158, 7683

Mentha piperita 4452

pears 1160

peas 7738

Phaseolus vulgaris 3201, 5046

Rosa multiflora 2484

spinach 5841

Vicia faba 5957

reflection

apples 1951

Capsicum 478

Citrus 6320

tomatoes 532

supplementary light

Angelica archangelica 1672

apples 7515

chrysanthemums 1541

Corchorus olitorius 6056

Gladiolus 635

poisettias 4394-4395, 5265

roses 3494

strawberries 1205, 5723, 9364,
10292-10293

Thymus vulgaris 3530, 4445

Ziziphus mauritiana 7370

transmission, coconuts 9948

Lignans, biosynthesis, *Arctium lappa* 9468**Lignin**

characterization, oil palms 2727

extraction, oil palms 2727

metabolism

plant growth regulators, *Gerbera*

8757

storage

Asparagus 6883

clementines 4529

Ligularia fischeri

cultural methods, Korea Republic 2108

Ligularia fischeri cont.

shade, responses 2108

Ligusticum chuanxiong, planting, planting
date 10789

Ligusticum officinale (see *Cnidium*

officinale)

Ligustrina amurensis (see *Syringa*

reticulata)

Ligustrum lucidum

photosynthesis

seasonal variation 2474

temperature 2474

Ligustrum ovalifolium

pollution

exhaust gases 10717

lead 10717

Lilacs (see *Syringa*)

Liliocercis lilii, *Lilium* 2407

Lilium

anthers, development, physiology 8791

bulbs

development

plant growth regulators 645

temperature 645

cultivars

assessment, Spain 7017

characteristics, USA 7894

classification 7895

cut flowers

production, cultural methods 7896

quality

cultivars 7017

planting date 3434

shade 3434

disease control

Fusarium oxysporum 649

Fusarium solani 649

Gibberella fujikuroi 649

lily symptomless carlavirus 1567

lily X potexvirus 1567

tulip breaking potyvirus 1567

flowers

abscission, physiology 8790

initiation, assessment 7898

thinning, responses 9706

in vitro culture

culture media 2405

propagation, micropropagation 2405-
2406, 7019

responses

light 2406

temperature 2406

pest control, *Liliocercis lilii* 2407

photosynthesis, photoinhibition 8789

planting, planting date 3434

pot plants

cultivars 4328

transport 4328

production, models 8783

research, Taiwan 8203

shade, responses 3434

species, characteristics, USA 642

yearbooks 11

Lilium davidii, pollen, germination, physiolo-
gy 4326

Lilium humboldtii

conservation, USA 643

cultural methods, USA 643

Lilium japonicum

bulbs

dormancy, *in vitro* culture 646

in vitro culture 10647

treatment 648

in vitro culture

explants, sources 3433

plant nutrition 10648

propagation, micropropagation 7897

responses

sugars 2404, 10647

temperature 646, 10647

Lilium kesselringianum, characteristics 641

Lilium lancifolium

bulbs

development

plant growth regulators 645

temperature 645

Lilium ledebourii, characteristics 641

Lilium leichtlinii

fertilizers

nitrogen 6885

potassium 6885

Lilium leichtlinii cont.

in vitro culture

culture media 2405

propagation, micropropagation 2405-
2406

responses

light 2406

temperature 2406

nutrients, uptake, seasonal variation
10518

plant, development, assessment 6885

Lilium leucanthum × **Lilium speciosum**,
cultivars, characteristics, USA 7018

Lilium longiflorum

anthers, histology 2408

bulbs

biochemistry 650

development, histology 6122

production, cultural methods 3432

disease control

cucumber mosaic cucumovirus 10649

lily symptomless carlavirus 10649

tulip breaking potyvirus 10649

flowers

development

cultivars 1566

models 9704

quality, assessment 3435

in vitro culture

culture media 647

organogenesis 5197

propagation, micropropagation 10649

storage 647

irrigation, systems 1566

leaves, development, models 6129

plant growth regulators, brassinosteroids,
composition 4325

planting

depth 3432

planting date 3432, 5198

pollen

biochemistry 650

tubes

composition 9705

cytology 7020

development 10650

protected cultivation, planting, planting
date 3432

Lilium maculatum

bulbs, production, cultural methods
10649

disease control

cucumber mosaic cucumovirus 10649

lily symptomless carlavirus 10649

tulip breaking potyvirus 10649

Lilium martagon, bulbs, composition 5199

Lilium michiganense

wild plants

conservation, USA 644

surveys, USA 644

Lilium monadelphum, characteristics 641

Lilium pensylvanicum

bulbs, production, cultural methods 4324

seeds

germination

anatomy 4327

tests 4323

Lilium philadelphicum, geographical distri-
bution 640

Lilium speciosum var. rubrum

flowers

development

plant growth regulators 7899

temperature 7899

Lilium szovitsianum, characteristics 641

Lily-of-the-valley (see *Convallaria majalis*)

Lily symptomless carlavirus

Lilium 1567

Lilium longiflorum 10649

Lilium maculatum 10649

Lily X potexvirus, *Lilium* 1567

Lime

utilization

fertilizers

Radermachera sinica 4368

tomatoes 6927

soil amendments

avocados 3571

cabbages 5004

cauliflowers 383

Hevea 9076

- Lime cont.**
 utilization cont.
 soil amendments cont.
 Macadamia integrifolia 6353
 plums 204
 spinach 1293
 tomatoes 509
 Vaccinium corymbosum 3009
 vegetables 325, 2113, 7647, 9427
- Limes**
 climate, Mexico 9871
 cultivars, disease resistance 4492
 disease control, *Xanthomonas campestris* pv. *citri* 829
 fertilizers, copper 8065
 fruits
 biochemistry 3603
 development, assessment 3734
 quality, assessment 10868
 in vitro culture, biochemistry 3603
 pest control, *Phyllocnistis citrella* 1733
 pests, surveys, India 2605
 plant, development, assessment 10827
 plant growth regulators
 2,4-D, responses 8065
 gibberellic acid, responses 8065
 planting stock, types, assessment 9874
 rootstock scion relationships
 morphology 10828
 plant nutrition 10826
 yields 10833
 seeds, treatment 5364
 shoots, histology 10828
 stomata, frequency 10828
 storage, treatment 6524
 surveys, Mexico 9871
 taxonomy
 chemotaxonomy 8937
 cytotaxonomy 4491
- Limestone**
 utilization
 amendments, *Chamaecyparis lawsoniana* 2479
 casing, mushrooms 2346
 fertilizers
 cherries 3818
 pineapples 3682
 soil amendments
 apples 2888
 cherries 2888
 plums 4856
- Limodorum abortivum**, in vitro culture, propagation, techniques 7055
- Limonia acidissima**, in vitro culture, biochemistry 8035
- Limonium**, cut flowers, production, cultural methods 7008
- Limonium sinuatum**
 flowers, development, plant growth regulators 10631
 herbicides, injuries 8745
 in vitro culture, organogenesis 4309
- Limonoids**
 composition
 Citrus 5363
 pummelos 5410
 metabolism, seasonal variation, *Azadirachta indica* 4448
- Limonomycetes roseipellis**, lawns and turf 669
- Linepithema humile**, lemons 8072
- Liothrips oleae**, olives 5427
- Liparis**, taxonomy, nomenclature 7056
- Lipids**
 biochemistry
 avocados 8053
 carnivorous plants 2391
 Cucurbita moschata 9519
 biosynthesis, leeks 4029
 characterization
 cabbages 4122
 Capsicum 7823
 tomatoes 7823
 composition
 algae 775
 Amomum maximum 1661
 Annona coriacea 8110
 Capsicum 7832
 Cucurbita pepo 5923
 guavas 7832
 Hippophae rhamnoides 6680
 lettuces 1305
- Lipids cont.**
 composition cont.
 oil palms 926
 Petunia 6104
 pomegranates 2663
 small fruits 5701
 tea 7368, 10018
 tomatoes 7832
 Zantedeschia aethiopica 1559
 determination
 apples 6582
 carrots 6582
 extraction, spinach 9454
 metabolism
 alcohols, okras 6893
 biochemistry
 peas 8615
 vegetables 3070
 cold, *Rhododendron bureavii* 8854
 flowering, *Arum italicum* 6132
 germination
 coconuts 2688
 cucumbers 7732
 watermelons 1810, 9961
 in vitro culture
 Aegle marmelos 1768
 Rhynchosstylis retusa 7942
 tulips 6131
 maturity, avocados 3577
 ripening
 grapes 3995
 melons 9047
 peaches 179
 small fruits 5701
 salinity
 olives 2650
 Simmondsia chinensis 10805
 seasonal variation, algae 3325
 senescence
 melons 4613
 Phaseolus vulgaris 2237
 roses 3501
 somatic embryogenesis, carrots 6048
 storage
 broccoli 4121
 horticultural crops 3737
 mandarins 8969
 pears 192
 temperature
 carrots 4255
 cucumbers 4146
 Isochrysis 5347
 leeks 3087
 Nitzschia 5347
 tomatoes 3308
 ultraviolet radiation, pears 1167
 vanadium, *Phaseolus vulgaris* 5045
- Liquidambar styraciflua**
 climate, microclimate 2509
 fruits, set, plant growth regulators 9774
 in vitro culture
 culture media 4421
 organogenesis 4421
 landscaping, urban sites 2509
- Liquorice** (see *Glycyrrhiza*)
- Liriodendron tulipifera**
 breeding, genetic engineering 7085
 herbicides, responses 7974
 in vitro culture, somatic embryogenesis 7085
 roots, development, cultural methods 7974
- Liriodendron tulipifera** × **Liriodendron chinense**, in vitro culture, somatic embryogenesis 7085
- Liriomyza**
 melons 3670
 tomatoes 10555
- Liriomyza bryoniae**
 greenhouse crops 4230
 peas 3214
 tomatoes 1459
- Liriomyza huidobrensis**
 celery 1487
 Chinese cabbages 3079
Gypsophila elegans 3415
 lettuces 3079
 ornamental plants 3378
- Liriomyza sativae**, melons 4609
- Liriomyza trifolii**
 aubergines 1424
- Liriomyza trifolii cont.**
 chrysanthemums 1539
 ornamental plants 2830
 tomatoes 2308, 7828
 vegetables 2830
- Liriope**, weed control 1522
- Liriope muscari**, herbicides, application methods 3470
- Lisianthus russellianus** (see *Eustoma grandiflorum*)
- Listronotus oregonensis**, carrots 1483
- Lüchi**
 air layering, treatment 8089
 cold
 resistance
 anatomy 856
 cultivars 8974
 plant water relations 8974
 cultivars
 characteristics, China 7233, 8972
 flowering 7233
 history, USA 5418
 identification 1745
 cuttings
 sources, ringing 1746, 3613
 treatment 1746, 3613
 disease control, fungi 7234
 fertilizers
 molybdenum 855
 nitrogen 854
 phosphorus 4540
 potassium 855, 1748, 4540
 zinc 855
 flowers
 development
 pruning 5420
 temperature 2635
 initiation
 histology 7233
 temperature 857
 sex
 assessment 1750, 2634
 pollination 4543
 fruits
 browning
 assessment 5421
 biochemistry 1758
 physiology 1759
 colour, storage 1756
 composition 4544, 6349
 cracking
 humidity 8973
 irrigation 4538
 physiology 4544
 plant water relations 3615
 development, biochemistry 9902
 drop
 cultural methods 1754
 physiology 1754
 pollination 1752
 morphology 4544
 quality
 cultivars 853, 8088
 cultural methods 855
 pruning 853
 ripening, plant growth regulators 2836
 set
 pollination 1753
 ringing 7235
 fungicides, responses 1757
 geographical distribution 2632
 growth retardation, plant growth regulators 1747, 4539
 handling, techniques, Vietnam 4702
 humidity, responses 8973
 inflorescences, morphology 1750, 2634
 irregular bearing, morphology 8975
 irrigation, frequency 4538
 leaves
 anatomy 856
 composition 6348
 nectar 4543
 nutrients, requirements, analysis 8090, 10876
 ovules, anatomy 9901
 pest control
 Aristobia testudo 2633
 Gonimbrasia belina 8091
 Lymantria dispar 7234
 Nematoda 3726

Litchi cont.

- pest control cont.
 - Statherotis leucaspis* 8092
 - Tessaratoma papillosa* 7234
- photosynthesis
 - fertilizers 1748
 - light 1748
 - models 4541
 - physiology 1754
 - potassium 4542
 - soil types 1749
 - water stress 1749
- plant, morphology 2634, 8975
- plant nutrition, potassium 4542
- plant water relations, physiology 8973
- pollen
 - germination
 - climate 1751
 - cultivars 1751
 - storage 1751
- pollination
 - compatibility 1753
 - pollinators, Apidae 55, 1753, 4543
- production
 - Israel 5417
 - Vietnam 2667
- production possibilities
 - Argentina 5357
 - South Africa 2578
 - USA 5418
- propagation, techniques 5419
- pruning
 - responses 1747, 4539, 5420
 - seasons 9900
 - systems, assessment 853
- respiration
 - potassium 4542
 - storage 1759
- ringing, responses 1754, 7235
- seeds, development, plant growth regulators 2637
- storage
 - packing 8976
 - systems, cold storage 7236
 - treatment 1755-1757, 7236, 8976
 - water stress, responses 3614
 - yearbooks 1002
- Lithium**, uptake, radishes 4124, 5010
- Lithospermum erythrorhizon**, *in vitro* culture, biochemistry 10790
- Liverworts**, utilization, reviews 8231
- Lobelia cardinalis**, *in vitro* culture, genetic transformation 4310
- Lobesia botrana**, grapes 279, 286, 290-291, 1245, 3790, 3981, 5760, 6710-6711, 7622-7624, 8475, 9412, 10341
- Lockhartia**, taxonomy, nomenclature 7056
- Lolium**
 - as weeds, olives 8097
- pest control
 - Lepidoptera 5213
 - Schizaphis* 5213
- Lolium multiflorum**
 - as cover crops, tomatoes 7806
 - as weeds, carrots 7834
 - seeds, production, cultural methods 8813
- Lolium perenne**
 - as cover crops
 - grapes 3967-3968, 7612
 - horticultural crops 5563
 - cultivars
 - assessment, USA 5209, 8799
 - identification 9719
 - disease control, *Rhizoctonia solani* 9723
 - fertilizers, nitrogen 5210-5211, 9723
 - frost, resistance, cultivars 10666
 - herbicides, injuries 668
 - pest control
 - Lepidoptera 5213
 - Schizaphis* 5213
 - photosynthesis, photoinhibition 6154
 - plant competition, *Zoysia matrella* 7910
 - pollution, nickel 5863
 - quality, assessment 8799
 - seeds
 - germination, inhibitors 5210-5211
 - production, cultural methods 8813
 - shade, responses 4343-4344
 - soilless culture
 - growing media 5210-5211
 - nutrient solutions, composition 3444

Lolium perenne cont.

- species, assessment, Germany 4341
- turves, production, cultural methods 2424
- weed control 668, 8805
- Lolium rigidum**
 - as cover crops
 - broccoli 9424
 - lettuces 9424
 - tomatoes 9424
 - as weeds
 - almonds 2850
 - olives 7242-7244
 - utilization
 - mulches
 - broccoli 9424
 - lettuces 9424
 - tomatoes 9424
- Longans**
 - cultivars, characteristics, China 9903
 - fruits
 - anatomy 10877
 - composition 10878
 - leaves
 - anatomy 10877
 - composition 6348
 - photosynthesis
 - physiology 7237
 - temperature 5422
 - pollen, morphology 2636
 - seeds
 - development
 - embryology 3616, 7238
 - plant growth regulators 2637
 - taxonomy, anatomy 10877
- Lonicera**, cultivars, characteristics, Russia 1192
- Lonicera altaica**, cultivars, characteristics, Russia 1192
- Lonicera nitida**, fertilizers 6187
- Lonicera periclymenum**, flowers, development, anatomy 7975
- Lonicera pileata**, cultivars, characteristics, USA 9768
- Lonicera tatarica**, cultivars, characteristics, USA 9768
- Lonicera xylosteum**, cultivars, clones 4386
- Loquats**
 - cold, injuries 10879
 - cuttings, treatment 1714
 - embryos, development, assessment 9904
 - flowers
 - development, climate 10879
 - initiation, plant growth regulators 8978
 - frost, injuries 858
 - fruits
 - composition 8979
 - development
 - biochemistry 858
 - climate 10879
 - ringing 4545
 - quality
 - plant growth regulators 7239
 - ringing 4545
 - set, plant growth regulators 8978
 - ultrastructure 6351
 - in vitro* culture, culture media 5423
 - plant growth regulators, paclobutrazol, responses 5424
 - production possibilities, Malaysia 9130
 - regeneration, pruning 8977
 - ringing, responses 4545
 - storage, treatment 7240
- Loropetalum chinense**, cultivars, identification 6229
- Lotononis bainesii**, as cover crops, temperate fruits 5585
- Lotus corniculatus**, as cover crops, horticultural crops 5563
- Lucerne**, as cover crops, mandarins 6323
- Luculia grandifolia**, *in vitro* culture, propagation, micropropagation 2510
- Luculia gratissima**, *in vitro* culture, propagation, micropropagation 2510
- Luculia pinceana**, *in vitro* culture, propagation, micropropagation 2510
- Lucuma** (see *Pouteria*)
- Luffa acutangula**
 - flowers, sex, plant growth regulators 3189

Luffa acutangula cont.

- fruits, quality, plant growth regulators 3189
- seeds, germination, seed treatment 9499
- Luffa aegyptiaca**
 - as rootstocks, *Momordica charantia* 10465
 - characteristics 10773
 - cultural methods, Italy 4133
 - electrical properties, physiology 6831
 - flooding, tolerance 9515
 - pest control, *Aphis gossypii* 3180
 - products 4133
 - seeds, composition 10484
 - tendrils, movement, physiology 6832
- Luisia volucris**, plant, composition 701
- Luperomorpha serriornis**, aubergines 2287
- Lupinus**, ornamental value 1509
- Lupinus harvardii**, seeds, treatment 5187
- Lupinus havardii**
 - cut flowers
 - preservatives 616
 - storage 616
 - vase life 616
- Lupinus polyphyllus**
 - flowers, fragrance, determination 10606
 - pollen, composition 10606
- Lycaste**, taxonomy, nomenclature 7056
- Lycium barbarum**, fruits, composition 3546
- Lycium chinense**, fruits, biochemistry 7168
- Lycopersicon** (see also *Tomatoes*)
- Lycoriella auripila**, mushrooms 3337, 7848
- Lycoriella fucorum**, mushrooms 6063
- Lycoriella mali**, mushrooms 7849
- Lycus africanus**, dates 6346
- Lygus hesperus**, strawberries 250
- Lygus rugulipennis**, peaches 1153
- Lygus spinolae**, tea 961
- Lymantria dispar**
 - Litchi 7234
 - ornamental woody plants 3471
- Lyophyllum shimeji**, composition 6972
- Lysiphlebus testaceipes**, control, of *Aphis gossypii*, cucumbers 407
- Lythrum diandra**, *in vitro* culture, culture media 671
- Lythrum salicaria**, cultivars, identification 7009, 7877
- Lythrum virgatum**, cultivars, identification 7009, 7877
- Maackia amurensis**
 - fertilizers, nitrogen 4422
 - plant, development, provenance 4422
 - roots, nodulation 4422
- Macadamia**
 - conferences 1883
 - cultivars, characteristics, Australia 6352
 - harvesting, models 6354
 - high density planting, cultural methods 2639
 - marketing, Australia 2638
 - nuts
 - development, pest control 10880
 - quality, models 6354
 - pest control, *Antiteuchus tripterus* 10880
 - photosynthesis, models 4541
 - planting stock, production, cultural methods 2639
 - production, Australia 2638
 - production possibilities
 - Argentina 5357
 - South Africa 2578
- Macadamia integrifolia**
 - leaves, composition 8980
 - soil amendments 6353
- Macadamia ternifolia**, leaves, composition 8980
- Macadamia tetraphylla**, leaves, composition 8980
- Macroclonium allenorum**, taxonomy, new taxa 7060
- Macrolophus caliginosus**, control, of *Trialeurodes vaporariorum*, tomatoes 4232
- Macrophomina phaseolina**
 - Cyamopsis tetragonoloba* 745
 - strawberries 5732
- Macropidia** (see also *Anigozanthos*)
- Macrosiphum euphorbiae**
 - cucumbers 3285
 - roses 7963
 - strawberries 1211

Macrosiphum euphorbiae cont.

tomatoes 2308, 3285, 4946

Macrosiphum rosae, roses 6202**Macrotomia cephalotes**, plant, composition, pigments 2524**Madagascar***Adansonia*, wild plants, utilization 8170

fruit crops, surveys 4676

Litchi, production 2632

medicinal plants, surveys 4676

Magnesium

composition

apples 1120, 2921-2922, 4804, 7473, 7494, 9203

bananas 9935

cherries 1134, 2933

edible fungi 1497

Ficus 10202

grapes 9391

horticultural crops 1052

Juglans 10261

mangoes 1836

Oenothera biennis 1688*Oenothera paradoxa* 1688*Osmunda japonica* 1497

peaches 2947

plums 4855

Rubus 1196, 9348

tomatoes 8675

walnuts 8392

deficiency

carnations 598

cucumbers 7734

mangoes 7325

oranges 5383, 6329

Rhododendron 4400

spinach 9453

determination, guavas 2717

fertilizers

apples 2884, 7478, 10166

cabbages 2183

cherries 2934

coconuts 5473

cucumbers 9508

figs 170

garlic 1276-1277

gooseberries 4874

grapes 6704

Impatiens walleriana 7876

lettuces 1311

Maytenus aquifolium 5341

onions 5822

pineapples 3682

spinach 1294

strawberries 1210

metabolism

biochemistry, *Rosa roxburghii* 4403

cadmium, cabbages 7708

calcium, tomatoes 6928

climate, grapes 3054

cultivars

cabbages 5866

grapes 3043

plums 4858

radishes 5886

cultural methods

chrysanthemums 605

pawpaws 5504

peaches 9291

development

carambolas 6464

plums 9326

disorders, avocados 4485

environment, grapes 3043

fertilizers

Alocasia regina 7042

apples 1954, 2885

cucumbers 6818

Hevea 2748

spinach beets 6773

fruiting, mangoes 1827

harvesting, *Amaranthus mantegazzianus* 6054*in vitro* culture, *Malus* 1103iron, *Malus* 1103

irregular bearing, apples 2913

irrigation

apples 1956

pomegranates 10898

maturity, *Asparagus* 6880

mutants, grapes 300

Magnesium cont.

metabolism cont.

mycorrhizas, *Asparagus* 10512

nitrogen

apples 6561

cabbages 5866

peaches 2954

pears 2954

Vaccinium ashei 2051

pH, kohlrabi 378

phosphorus

peaches 2955

pears 2955

plant growth regulators

Pistacia lentiscus 2576

pomegranates 10898

potassium

Boehmeria nivea 7185

figs 170

ripening, plums 9326

rootstock scion relationships

cherries 4812

grapes 3975, 8465

limes 10826

oranges 3584

peaches 3844, 5654

pistachios 3900

tomatoes 5092

watermelons 9039

salinity

Capsicum 5998, 8628

grapes 8459

guavas 9050

onions 3092

peaches 3849, 3857

Phyllanthus emblica 2779*Ziziphus rotundifolia* 11018

seasonal variation

apples 4773

Asparagus 3226

grapes 3038

peaches 10213

Protea 741*Spondias purpurea* 2781*Vaccinium* 3008

walnuts 8391

Ziziphus sativa 11016

sex, spinach 8523

soil amendments, avocados 3571

soil pH, *Vaccinium* 1200

soilless culture

spinach 4055

tomatoes 507, 4222

Vaccinium 3008

storage, radishes 5886

temperature, cucumbers 4131

zinc, *Hibiscus rosa-sinensis* 1648

plant nutrition

apples 10166

apricots 9238

blackberries 10279

Brassica campestris 10445

cabbages 1325

cashews 1794

celery 8710

cherries 3818

coconuts 5471, 9950

Cupressus arizonica 1621

figs 170

grapes 274

Impatiens walleriana 7876*Liichi* 4544

mangoes 7325

olives 863, 8100

pineapples 3682

plums 4855

Rosa damascena 7148

strawberries 5729

tea 958

tomatoes 3282, 5101

Vaccinium corymbosum 10283

requirements

analysis

cabbages 4094

grapes 6704

peaches 2000

Spondias purpurea 2781

responses, grapes 278

toxicity, onions 1285

uptake

Andrographis 5332**Magnesium** cont.

uptake cont.

apples 2864, 2870

Brassica 1332*Capsicum* 2279

cherries 3819, 6599

cucumbers 5895

grapes 2870, 3034, 3041-3042

Impatiens 4307

lettuces 1311, 4996

Lilium leichtlinii 10518

melons 909

onions 5822

oranges 3607

ornamental plants 3376

Phaseolus vulgaris 2229

plums 4856

strawberries 3940, 5729, 10295

Valerianella locusta 3129*Ziziphus mauritiana* 1853**Magnetism**

responses

cucumbers 8584

pears 1163

Magnolia biondii

flowers, development, physiology 8925

leaves, development, physiology 8925

Magnolia cordata, *in vitro* culture, somatic

embryogenesis 7085

Magnolia delavayi, *in vitro* culture, propaga-

tion, techniques 7086

Magnolia denudata

flowers, composition 8851

leaves, vascular system 9153

Magnolia fraseri, *in vitro* culture, somatic

embryogenesis 7085

Magnolia grandiflora

cut foliage, disease control 4392

frost, resistance, assessment 3469

fungicides, injuries 4392

Magnolia kobus, flowers, composition 8851**Magnolia liliiflora**, flowers, composition

8851

Magnolia macrophylla

cultural methods, USA 7083

in vitro culture, somatic embryogenesis

7085

Magnolia pyramidata, *in vitro* culture,

somatic embryogenesis 7085

Magnolia salicifolia, flowers, composition

8851

Magnolia soulangiana, *in vitro* culture,

propagation, micropropagation 9778

Magnolia virginiana*in vitro* culture, somatic embryogenesis

7085

planting stock, production, cultural meth-

ods 6185

Magnolia wiesneri, cultivars, ornamental

value 7084

Mahonia, pest control, *Pratylenchus pene-*

trans 8847

Mahonia repens

photosynthesis

light 709

photoinhibition 708

Mahonia wagneri, cultivars, clones 4386**Maize**

as cover crops, tea 953

as shade plants, tomatoes 7796

cultivars, assessment, Trinidad and

Tobago 7844

Malawi, tea, cultivars 9087**Malaxis**, taxonomy, nomenclature 7056**Malaxis purpurea**, geographical distribution

7061

Malaysia*Allium*, production possibilities 5809

cocoa, cultivars 4591

Hevea

production 10989

research 6440

oil palms

pest control 7342

production 9059, 9986, 10982

subtropical fruits, production possibilities

9130

temperate fruits, production possibilities

9130

tropical crops, production 4568

Mali

- onions, production 5800
- wild plants, edible species 9814

Mallada basalis

- control
 - of *Panonychus citri*, *Citrus* 6333
 - of *Phyllocnistis citrella*, *Citrus* 6333
 - of *Phyllocoptruta oleivora*, *Citrus* 6333
- of *Tetranychus kanzawai*, strawberries 3021
- of *Tetranychus urticae*, strawberries 3021

Malpighia glabra, climate, Brazil 11024**Malus** (see also Apples)

- books 988
- cultivars
 - characteristics, USA 9769
 - disease resistance 4424, 7976
 - identification 1928
 - ornamental value 4423
- photosynthesis, plant growth regulators 1651
- seeds, development, apomixis 5623
- species, disease resistance 7976
- stomata, movement, plant growth regulators 1651

Malus adstringens, cultivars, disease resistance 7976**Malus baccata**

- as rootstocks, apples 1067
- cultivars, disease resistance 4424, 7976
- in vitro* culture, plant nutrition 1103
- ornamental woody plants, pollination, apples 1972
- plant nutrition, iron 2889

Malus coronaria, species, disease resistance 7976**Malus × Cydonia**

- cuttings
 - types
 - semihardwood cuttings 4840
 - softwood cuttings 4840

Malus floribunda, ornamental woody plants, pollination, apples 1972**Malus glabrata**, species, disease resistance 7976**Malus halliana**, species, disease resistance 7976**Malus honanensis**, *in vitro* culture, propagation, micropropagation 9181**Malus hupehensis**

- as rootstocks, apples 1067
- flowers, initiation, plant growth regulators 1105
- plant, development, plant growth regulators 1105

Malus micromalus

- as rootstocks
 - apples 1067
 - China 10112
- budding, unions, histology 77
- disorders, chlorosis 6559
- fruits, composition 10168
- in vitro* culture, plant nutrition 1103
- nutritive value 10168
- plant nutrition, iron 2889, 6559
- seedlings, development, mycorrhizas 5599

Malus prunifolia

- as rootstocks, apples 1067, 6544, 8254, 8274
- seedlings, development, mycorrhizas 5599

Malus purpurea, species, disease resistance 7976**Malus sieversii**, seedlings, development, mycorrhizas 5599**Malus spectabilis**, cultivars, disease resistance 7976**Malus toringo**

- as rootstocks, apples 3758
- cultivars
 - clones 4386
 - disease resistance 4424
- mycorrhizas 10119

Malus tschonoskii

- cultivars, disease resistance 4424
- species, disease resistance 7976

Malus xiaojinensis, plant nutrition, iron 2889**Malus zumi**, cultivars, disease resistance 7976**Malva**, as weeds, olives 8097**Malva pusilla**, as weeds, strawberries 2063**Malva verticillata**

- harvesting, techniques, assessment 2559
- photosynthesis, measurement 2559
- shade, responses 2559

Malvaceae, pollen, morphology 8227**Malvaviscus arboreus**, pot plants, production, cultural methods 5288**Mamestra brassicae**, Brussels sprouts 10450**Mandarin**

- altitude, responses 10837
- as rootstocks
 - Citrus* 3591, 5369, 7197, 9878
 - clementines 10823
 - grapefruits 8056
 - lemons 8941
 - oranges 828, 1715, 4496, 5382, 6313, 8055, 8946
- buds, development, pruning 4501
- cooling, techniques 8079-8080
- cover crops, responses 6323
- cropping systems, agroforestry 824
- cultivars
 - assessment
 - New Caledonia 4493
 - South Africa 5362
 - characteristics
 - China 1712, 9873, 10822
 - Turkey 10824
 - disease resistance 4492
 - identification 8939
- defoliation, responses 4496
- disease control
 - Capnodium citri* 1726
 - India 2596
 - Phytophthora colocasiae* 10847
 - Phytophthora nicotianae* var. *parasitica* 10847
- disorders
 - chilling injury 7222, 7226
 - chlorosis 3589
 - rind pitting 5384
 - sun scald 8067
 - water spot 8075
- fertilizers 8960
 - iron 5381
 - manganese 5381
 - nitrogen 4504, 5381
 - zinc 5381
- flowers, initiation, plant nutrition 8960
- fruits
 - abscission, physiology 5577
 - biochemistry, altitude 10837
 - composition 8969
 - drop, climate 10856
 - quality
 - cultivars 10824
 - cultural methods 5384
 - rootstock scion relationships 10831
 - storage 8968
 - ripening
 - biochemistry 840, 7217
 - physiology 5577
 - plant growth regulators 7217
 - set
 - plant growth regulators 8961
 - ringing 8961
 - thinning, plant growth regulators 2617
- handling, mechanization 2622
- in vitro* culture
 - plant embryos 9880
 - somatic embryogenesis 1716
- insecticides, application methods 8070
- interstocks 9879
- irregular bearing
 - cultural methods 4520
 - fruiting 2617
 - physiology 7215
 - plant growth regulators 4518-4519, 5393
- irrigation, water, salinity 8064
- leaves, colour, measurement 6320
- mycorrhizas 8060
- nutrients, requirements, analysis 3585
- pest control
 - Aleurocanthus woglumi* 1726, 10850

Mandarin *cont.***pest control** *cont.*

- Bactrocera tryoni* 10865
- India 2596
- Panonychus citri* 2611
- Phyllocnistis citrella* 8070
- Scirtothrips dorsalis* 3597

plant

- anatomy 7197
- development, seasonal variation 4505
- plant growth regulators
 - 4-chloro-*o*-tolylxyacetic acid, responses 4705
 - 2,4-D, responses 8075
 - dichloroprop, responses 4705
 - ethephon, responses 7222
 - ethylene, responses 7222
 - gibberellic acid, responses 839, 8075
 - paclobutrazol, responses 5366
 - 3,5,6-trichloro-2-pyridyloxyacetic acid, responses 4705

plant nutrition

- iron 3589
- nitrogen 3588, 4504
- phosphorus 3588, 4505, 8060
- potassium 3588
- trace elements 4506

pruning, seasons 4501**regeneration, topworking 9883****ringing, responses 8961****rootstock scion relationships**

- growth 10831
- yields 10831-10832

seeds, treatment 5364**shade, responses 4496****storage**

- biochemistry 7226
- buildings 6338
- disease control 847, 6341, 7228-7229
- diseases 6342
- disorders 7222, 7226
- pest control 10865
- physiology 6341
- quality, harvesting date 10863
- systems, cold storage 8969
- temperature 841
- treatment 847, 3609, 7228-7229, 8968

taxonomy

- cytology 3582
- morphology 3582

topworking 10839**transpiration, plant water relations 4511****weed control 6323, 8058****wind, protection 6322****yields, disorders 8067****Manfreda** (see Agave)**Manganese****composition**

- algae 8219
- apples 2922, 7473, 8219
- bananas 9935
- cherries 2933
- Citrus* 8219
- Gerbera* 8219
- Hibiscus* 9428
- Ilex paraguariensis* 10788
- Juglans* 10261
- kiwifruits 7559
- Lentinula edodes* 5149
- mangoes 1836
- Oenothera biennis* 1688
- Oenothera paradoxa* 1688
- olives 3620
- Syzygium jambos* 9110
- Talinum triangulare* 6968
- vegetables 9428
- walnuts 8392

deficiency

- apples 3783
- apricots 9238
- cucumbers 7734
- Cycas revoluta* 5285
- olives 8100
- peaches 2957
- Rhododendron* 4400

determination

- dates 4537
- guavas 2717
- vegetables 7651

Manganese cont.

fertilizers

apples 1082, 10122
grapes 6704
mandarins 5381
onions 7670
oranges 2594, 7214
pawpaws 1841
pears 1082, 10122
Pleurotus 3366
roses 8862
vegetables 6738
Ziziphus mauritiana 966

metabolism

aluminium, tea 4645
biochemistry, *Rosa roxburghii* 4403
cadmium

cabbages 7708
peas 1391

calcium, *Capsicum* 6900
cultivars, plums 4857-4858
cultural methods
grapes 3038
peaches 9291

disorders, oranges 9889
fertilizers, melons 6416
fruiting, mangoes 1827
in vitro culture, cucumbers 4129

iron

onions 6754
Tagetes erecta 7888

irrigation

apples 1956
pomegranates 10898

nitrogen, *Capsicum* 6900

phosphorus

cherries 1132
peaches 2955
pears 2955

plant growth regulators, pomegranates 10898

rootstock scion relationships

grapes 8465
limes 10826
oranges 3584

salinity, grapes 8459

seasonal variation

Asparagus 3226
grapes 3053
olives 10883
Protea 741
walnuts 8391
Ziziphus sativa 11016

sex, spinach 8523

soil amendments, avocados 3571

soil pH

pears 8363
plums 8363
Vaccinium 1200

storage, apples 4732
temperature, mangoes 4630

nutrition, *Lentinula edodes* 575

plant nutrition

apples 1082, 4753
blackberries 10279
cashews 1794
chrysanthemums 3392
dates 7231
Hebe 3505
mandarins 4506, 5381
pears 1082
Rosa damascena 7148
tea 4645
tomatoes 9598

requirements

analysis
cabbages 4094
cherries 2935
grapes 6704
Litchi 10876

responses

Amaranthus 3323
tea 11002

toxicity

lawns and turf 10670
Pelargonium hortorum 1545, 4291
Tagetes patula 9692
tea 4645

translocation, tomatoes 5113

uptake

Andrographis 5332

Manganese cont.

uptake cont.

apples 2864
Capsicum 2279
Cassia senna 8027
cherries 3819, 6599
Cleome droserifolia 8027
cucumbers 5895
garlic 4025
grapes 3051
guavas 6425
horticultural crops 8223
oranges 3607
strawberries 3940

Mangifera (see also Mangoes)

Mangoes

buds

development, temperature 4628
dormancy, cyanamide 7333
climate, microclimate 6428

cropping systems

agroforestry 876, 7323

intercropping 7324, 10950

cultivars

assessment

Brazil 9973
India 3675, 4620, 5494
characteristics
China 9053
India 7329

disease resistance 8149, 9052, 10957

identification

pest resistance 4621, 8148
processing 920, 4619
quality 9974

cultural methods, Caribbean 9972

defoliation, responses 4628

disease control

Botryodiplodia theobromae 7340, 9984

Dothiorella dominicana 9984

Glomerella cingulata 9054, 10975-10978

Nattrassia mangiferae 10975-10978

Oidium mangiferae 1046

Phomopsis mangiferae 9984

Xanthomonas campestris pv. *mangiferaeindicae* 3678, 10956-10957

disorders

black-tip 3677
chilling injury 4633
sapburn 9983
spongy tissue 9980

fertilizers

nitrogen 10954
phosphorus 10954
potassium 9979

flowers

abnormal development 10961-10962
development

assessment 7330, 10961
plant growth regulators 1831
temperature 9056

initiation

plant growth regulators 1830, 10959
plant nutrition 1830
temperature 857

sex

cultivars 10960
plant growth regulators 8151
thinning 10960
water stress 8151

frost, injuries 4588

fruits

biochemistry, plant growth regulators 9057

composition 878, 1836, 6371

development

assessment 3734
biochemistry 7335
cultural methods 7333

drop, plant growth regulators 7334, 9057, 10966

maturity, assessment 7337

quality

cultivars 3675
fertilizers 1828
plant nutrition 10955
storage 1834

Mangoes cont.

fruits cont.

ripening

biochemistry 923, 1832, 1835, 4632, 7335, 7339, 9981
cultivars 10974
physiology 9058
plant growth regulators 2836, 9982
storage 5496
temperature 924

set

cultural methods 7333
pollination 10965

size

plant growth regulators 9057, 10966
thinning 10967-10969
thinning, responses 9976, 10967-10969

grafting

rootstocks, age 7321

scions

storage 2720, 10948
treatment 2720, 7321, 10948

growth retardation

cultural methods 922
plant growth regulators 9975, 9978

handling, techniques

harvesting, techniques, mechanical harvesting 2723

in vitro culture

disorders, vitrification 2721
somatic embryogenesis 7322

inflorescences

abnormal development 6432, 7331, 8152

biochemistry, disorders 7331

insecticides, residues 8150

intercropping

Curcuma longa 7324, 10950
guavas 7324

pawpaws 7324

peas 7324

radishes 7324, 10950

sorghum 7324

Vigna unguiculata subsp. *unguiculata* 7324

wheat 7324

irregular bearing

cultivars 10970
physiology 3679

irrigation

responses 10954
water, salinity 6429

leaves

biochemistry 1773
development

anatomy 4629
physiology 4629

mulching, responses 9980

nutrients

requirements, assessment 7325, 10953
uptake

rootstock scion relationships 5495
temperature 4630

nutritive value 1916

pest control

Aceria mangiferae 4626, 6430
Contarinia citri 4627

Isoptera 4625

Nematoda 4625

Rastrococcus iceryoides 2722

Rastrococcus invadens 1829

Sternonchetus mangiferae 6431

pests, surveys, Côte d'Ivoire 4571

photosynthesis

fruiting 3679
measurement 9055

physiology 4629
temperature 5422

plant

composition 8153
development

models 9977
pruning 3676

plant growth regulators

abscisic acid, *in vitro* culture 7322, 7328

paclobutrazol, responses 1830-1831

Mangoes cont.

- plant nutrition
 - calcium 10955
 - nitrogen 1827, 1830
 - phosphorus 1827
 - potassium 1827, 10955
 - surveys
 - China 1826
 - India 10952
 - South Africa 10953
 - trace elements 1828
- plant training, systems 9976-9977
- planting, systems 10905
- pollination
 - compatibility 7332
 - cultivars 10965
 - pollinators
 - Apidae 55, 10963-10964
 - Diptera 10963
 - Rhyncomya forcipata* 55
- pollution, fluorine 3677
- processing, quality, cultivars 920, 4619
- production
 - Australia 2719
 - Brazil 6488
 - Vietnam 2667
- production possibilities, South Africa 2578
- propagation, techniques 1824, 7319
- pruning
 - responses 3676, 9975-9976
 - systems, assessment 10951
- reports, Australia 8189
- reproduction, biology 7329
- ringing, responses 4628
- roots, composition 4631
- rootstock scion relationships
 - disorders 7327
 - growth 5495
 - plant nutrition 5495
 - yields 10949
- rootstocks
 - assessment, Venezuela 4623-4624
 - characteristics, Venezuela 4622
 - salinity 7326
- salinity, responses 7326
- seedlings
 - abnormal development 7327
 - development, temperature 4630
- seeds
 - development, physiology 7336
 - germination, seed treatment 7320
 - treatment 7336
 - viability
 - drying 921
 - moisture content 921
 - storage 7320
- shelterbelts 1825
- soil conditioners, responses 6429
- soil management, responses 9980
- storage
 - disease control 7340, 9984, 10975-10978
 - disorders 4633
 - packing 5496
 - physiology 1834, 10974
 - precooling 10973
 - quality, cultivars 9974
 - research 10971
 - systems
 - controlled atmosphere storage
 - 1833, 5497, 7338
 - hypoxia 7192
 - modified atmosphere storage
 - 5496, 7338
 - temperature 924, 4633, 7335
 - treatment 4634, 7339, 9981, 9983
 - wrappings 1976
- surveys, Madagascar 4676
- weed control 9884
- yearbooks 10045
- yields
 - correlation 2724
 - research 10958

Mangosteens

- books 1875
- disorders, translucent flesh disorder 6466
- fruits, quality, disorders 6466
- in vitro* culture, organogenesis 6467
- production possibilities, Indonesia 2776
- research, Indonesia 2776

- Manihot glaziovii*, characteristics 1704
- Manilkara* (see also *Sapodillas*)
- Manilkara hexandra*, as rootstocks, sapodillas 9083, 11000
- Marcotting** (see Air layering)
- Marigold** (see *Calendula officinalis*; *Tagetes*)
- Marjoram** (see *Origanum*)
- Marjorana** (see *Origanum*)
- Marketing**
 - almonds
 - European Union countries 74
 - Spain 74
 - USA 74
 - cherries, Norway 166
 - cut flowers
 - Germany 3379
 - models 2376
 - Taiwan 2376
 - fruit crops
 - Poland 1055
 - USA 4708
 - horticultural crops
 - Tunisia 4677
 - USA 1023
 - Macadamia*, Australia 2638
 - melons, Korea Republic 4606
 - onions, USA 4965
 - ornamental plants
 - Israel 1511
 - Poland 1055
 - pot plants
 - Germany 3379
 - Netherlands 1528
 - Tuber melanosporum*, Italy 582
 - vegetables
 - Poland 1055
 - Sweden 1274
 - USA 4708
- Marrows** (see also *Cucurbita*)
 - allelopathy 1266
 - disease control, *Cladosporium cucumerinum* 6820
 - economics, Australia 3160
 - herbicides, tolerance 3071
 - pest control
 - Meloidogyne incognita* 4945
 - Nematoda 4945
 - Trialeurodes vaporariorum* 1365
 - reports, Belgium 1888
 - soil solarization 4945
 - soilless culture, responses 3175
- Maruca vitrata*, peas 3214
- Masdevallia papillosa*, taxonomy, new taxa 3463
- Masdevallia renzii*, taxonomy, new taxa 3463
- Masdevallia zongoensis*, taxonomy, new taxa 3463
- Matricaria*, as weeds, olives 8097
- Matricaria chamomilla* (see *Chamomilla recutita*)
- Matricaria perforata*, as weeds, cabbages 9475
- Matthiola incana**
 - flowers, colour, biochemistry 6115
 - in vitro* culture
 - callus, growth 8777
 - organogenesis 8777
 - plant, physiology 617
 - seeds
 - production, cultural methods 6114
 - treatment 6114
- Matucana**, books 9111
- Mauritania**, onions, production 5800
- Mauritius**
 - cut flowers, production possibilities 10605
 - horticultural crops, history 6492
 - Litchi*, production 2632
 - medicinal plants, history 6492
 - ornamental plants, history 6492
 - Verbenaceae, species 10062
- Maxillaria**, taxonomy, nomenclature 7056
- Maxillaria dressleriana*, taxonomy, new taxa 7062
- Maxillaria moralesii*, taxonomy, new taxa 7062
- Maytenus aquifolium**
 - leaves, composition 5341
 - plant, development, fertilizers 5341

Maytenus ilicifolia

- in vitro* culture, organogenesis 3547
- seeds, storage 8036
- Mechanically induced stress**
 - responses
 - aubergines 5089
 - cabbages 8544
 - carrots 1484
 - horticultural crops, reviews 5572
 - plants, reviews 3728
 - tomatoes 1484, 5089
 - vegetables 1261
- Meconopsis betonicifolia*, flowers, colour, biochemistry 7878
- Meconopsis grandis*, flowers, colour, biochemistry 7878
- Meconopsis horridula*, flowers, colour, biochemistry 7878
- Meconopsis integrifolia*
 - taxonomy
 - morphology 8778
 - revisions 6116
- Meconopsis pseudointegrifolia*
 - taxonomy
 - morphology 8778
 - revisions 6116
- Medicago polymorpha*, as cover crops, grapes 3968
- Medicago sativa**
 - as cover crops
 - broccoli 9424
 - lettuces 9424
 - tomatoes 9424
 - as green manures, melons 6414
 - utilization
 - mulches
 - broccoli 9424
 - lettuces 9424
 - tomatoes 9424
- Medicinal plants**
 - books 1859, 2791, 9112, 10037
 - China 1000
 - conferences 1004, 4668, 6479-6480, 7400
 - cropping systems
 - agroforestry 2535, 6272
 - intercropping 3655
 - cultural methods
 - Brazil 759
 - China 7155
 - databases 7984
 - ethnobotany 4451, 5327
 - history, Mauritius 6492
 - intercropping, coconuts 3655
 - mycorrhizas 10772
 - pollution, heavy metals 9815
 - production
 - Germany 8887
 - history 6530
 - India 6491
 - seeds
 - germination, assessment 759
 - production, Croatia 2837
 - surveys, Madagascar 4676
 - weed control, conferences 1012
 - wild plants
 - conservation, Slovenia 5328
 - genetic resources, Slovenia 5328
 - utilization 7154
- Mediterranean Region**, almonds, rootstocks 10090
- Megaselia halterata*, mushrooms 7848
- Melaleuca alternifolia*, leaves, anatomy 8904
- Melia azadirachta* (see *Azadirachta indica*)
- Melilotus indica*, as weeds, *Pimpinella anisum* 1675
- Melissa officinalis*
 - herbicides, bentazone, tolerance 4461
 - in vitro* culture, propagation, micropropagation 6264
 - manures 3520
- Meloidogyne**
 - coffee 5475
 - cucumbers 2207, 3179, 6821-6822
 - melons 3179
 - tomatoes 1455, 2306, 4205, 6931
 - Zingiber officinale* 10753
- Meloidogyne donghaiensis*, *Citrus* 830
- Meloidogyne hapla*
 - carrots 551, 6955

Meloidogyne hapla *cont.*

grapes 7599
strawberries 249
tomatoes 8679

Meloidogyne incognita

aubergines 4198, 5083, 6035
Callistephus chinensis 7003
Capsicum 1410, 7771
Citrus 831
cucumbers 405, 522, 5901
Cucurbita pepo 1415
Curcuma longa 8893
grapes 276
Hemerocallis 5186
okra 7767
pawpaws 929
tomatoes 520-523, 1454, 5083, 6010, 6035, 8647, 8678
vegetables 4945, 5776
Zingiber officinale 7999, 8893

Meloidogyne javanica

aubergines 1453, 3251, 4199
Capsicum 7771
fennel 7992
okra 463, 7766
peaches 1146
tomatoes 519, 1453, 6932

Melolontha melolontha

apples 6566, 9196
fruit crops 9164
grapes 9196

Melons

chloroplasts, isolation 5486
conferences 5542
cropping systems, rotations 3179
cultivars
 assessment
 China 9038
 Colombia 7642
 Japan 9038
 Tunisia 1806
 characteristics, Japan 10931
 disease resistance 3664
 fruiting 7314
 pest resistance 9958
 quality 10937
 soilless culture 907
 temperature 9037
disease control
 Cladosporium cucumerinum 6820
 Didymella bryoniae 3669
 Erwinia tracheiphila 910
 Taiwan 3667
 viruses 3665, 3668, 4609
 zucchini yellow mosaic potyvirus 3176
disorders, chilling injury 4615
economics
 Argentina 3723
 Australia 3160
 Korea Republic 4606
fertilizers
 calcium 10934
 nitrogen 1816, 6416, 8143, 10934
 phosphorus 6416
 potassium 6416, 8143, 10934
flowers, sex, plant growth regulators 6420
fruits
 biochemistry 414
 cultivars 6409
 size 10937
 characteristics 5492
 development, biochemistry 5490
 quality
 assessment 2711
 cultivars 7314
 plant growth regulators 6420
 pollination 5487
 position 3672
 soilless culture 908
 staking 3672
ripening
 biochemistry 4614, 5489-5490, 9968-9969, 10936
 cultivars 9047
 physiology 9047
senescence 4613, 5491
set
 plant growth regulators 7429
 pollination 6413

Melons *cont.*

fruits *cont.*
 set *cont.*
 pruning 10935
 size, shade 9963
 grading, techniques 7315
 grafting
 cultural methods 4935
 equipment 8564
 green manures 6414
 growing media
 amendments 2813
 composition 2813
 harvesting, equipment 6422
 herbicides
 injuries 9041
 tolerance 3071
 in vitro culture
 embryos 1812
 explants, sources 6812
 organogenesis 6812
 insecticides, responses 2707
 irrigation
 fertigation 1816, 8143
 systems 2704, 6415
 water, magnetism 2703
 leaves
 biochemistry 6418, 9518
 ultrastructure 9967
 vascular system 9967
 manures 6414
 marketing, Korea Republic 4606
 mulching, responses 3665, 4609, 6412
 nutrients, requirements, analysis 323
 pest control
 Acalymma vittatum 910
 Aleyrodidae 3665
 Aphididae 3668
 Aphis gossypii 911, 2708
 Bemisia 2707
 Bemisia argentifolii 9046
 Bemisia tabaci 4609
 Diaphania hyalinata 7313
 Diaphania nitidalis 7313
 insects 1814, 3670
 Liriomyza sativae 4609
 Meloidogyne 3179
 Spain 2116
 Taiwan 3667
 photosynthesis
 light 4612
 measurement 4612
 temperature 5486
 plant
 development
 cultural methods 321
 temperature 6419
 plant nutrition
 calcium 909
 iron 6416
 magnesium 909
 manganese 6416
 nitrogen 909, 1815, 9043
 phosphorus 909, 9043
 potassium 909, 1815, 9043
 surveys, Mexico 2706
 plant residues, utilization, fodder 2119
 planting
 site preparation 6412
 spacing 906, 1818
 pollination, pollinators, Apidae 5487, 6413
 production, Brazil 3663
 production possibilities, USA 8491
 products, pectins 1774
 protected cultivation
 cultivars 1806
 fertilizers 10934
 harvesting date 4610
 pest control 2708
 plant nutrition 323
 plant training 3672
 pollination 6413
 systems
 plastic film 1814, 3668
 plastic tunnels 9147
 row covers 1814, 4609
 pruning, responses 10935
 reports, Belgium 1884
 research, USA 1346
 respiration, physiology 5483

Melons *cont.*

roots
 development
 cultivars 9037
 irrigation 6415
salinity
 responses 1815
 tolerance 9965
seedlings
 production
 containers 6411
 cultural methods 905
 energy requirements 6498
 labour requirements 6498
seeds
 biochemistry 2709
 composition 1808, 10484
 germination
 cultivars 2701
 oxygen 2701
 plant growth regulators 2701
 seed treatment 5483
 temperature 2701
 imbibition, oxygen 6410
 production, cultural methods 1818
 sowing
 responses 6412
 techniques 2700
 treatment 5483, 7312, 8142
 viability
 seed treatment 8142
 storage 8142
shade, responses 9963
soil types 10937
soilless culture
 economics 9042
 growing media 908
 nutrient solutions
 electrical conductivity 907
 salinity 3666
 temperature 8223
 systems
 assessment 9042
 hydroponics 907, 4610, 5485
 nutrient film techniques 907, 9037
sorting, techniques 6423
staking, responses 3672
storage
 biochemistry 4614
 disorders 4615
 physiology 4615
 quality
 cultivars 9047
 shade 9963
 temperature 10936
taxonomy, morphology 3161
weed control 9041
yields, pests 9045

Mentha
 cropping systems, intercropping 9830
 cultivars, characteristics, Ukraine 5312
 disease control, *Puccinia menthae* 5313, 8012
 in vitro culture, propagation, micropropagation 5312
 leaves, composition 1674
 plant growth regulators, cytokinins, metabolism 1674
 salinity, tolerance 8013

Mentha aquatica
 allelopathy 8211
 disease control, *Puccinia menthae* 5313

Mentha arvensis
 allelopathy 8211
 cropping systems, agroforestry 2526
 disease control, *Puccinia menthae* 5313
 fertilizers, nitrogen 2530, 8014
 intercropping
 Eucalyptus tereticornis 9830
 Populus deltoides 2526
 irrigation, frequency 2530
 leaves, development, biochemistry 5314
 mulching, responses 2530
 planting stock, production, cultural methods 6265
 pollution, heavy metals 5311
 weed control 6265

Mentha candida, disease control, *Puccinia menthae* 5313

Mentha gracilis
 cropping systems, agroforestry 2526

***Mentha gracilis* cont.**

intercropping

Eucalyptus tereticornis 9830*Populus deltoides* 2526***Mentha longifolia*, allelopathy 8211*****Mentha piperita***

allelopathy 8211

disease control, *Puccinia menthae* 5313

fertilizers, nitrogen 9831

in vitro culture, metabolites, production 3523intercropping, *Eucalyptus tereticornis* 9830

leaves, composition 1674

manures 3520

plant growth regulators, cytokinins, metabolism 1674

planting stock, production, cultural methods 6265

pollution, heavy metals 5311

rhizomes, development, light 4452

trichomes 754

weed control 6265

Mentha pulegium

allelopathy 8211

wild plants, edible species 2806

Mentha rotundifolia

allelopathy 8211

disease control, *Puccinia menthae* 5313***Mentha spicata***disease control, *Puccinia menthae* 5313*in vitro* culture, techniques 5557intercropping, *Eucalyptus tereticornis* 9830

planting, planting date 3524

Mentha verticillata*, allelopathy 8211**Mentha viridis*, disease control, *Puccinia menthae* 5313*****Menyanthes trifoliata*, ecology, Russia 2537****Mercury**

composition

algae 8219

apples 8219

Citrus 8219

edible fungi 4265

fruit crops 9152

Gerbera 8219*Oenothera biennis* 1688*Oenothera paradoxa* 1688

temperate fruits 10069

vegetables 9152

toxicity

onions 1285

radishes 5011

uptake, radishes 5011

Mesembryanthemum criniflorum* (see *Dorotheanthus bellidiflorus*)**Mesembryanthemum crystallinum***

chloroplasts

physiology

light 8827

salinity 8827

in vitro culture, cell suspensions 5244

leaves

biochemistry 1527, 8828

ultrastructure 1593

photosynthesis, CAM pathway 3454

plant growth regulators, abscisic acid, metabolism 6161

salinity, responses 3453, 4365-4366, 5244, 6162

water stress, responses 6161

Mesolecanium nigrofasciatum*, peaches 116**Metamasius hemipterus*, bananas 885*****Metarhizium*, control, of *Byctiscus betulae*, grapes 10340*****Metarhizium anisopliae*, control, of *Oryctes rhinoceros*, oil palms 8154*****Metaseiulus occidentalis*, control, of *Tetranychus urticae*, hops 1678*****Metcalfa pruinosa***

apples 1094

fruit crops 1045, 4694

grapes 287, 1094

Metroxylon

conferences 22

cropping systems, agroforestry 975

planting, spacing 974

products, starch 976, 978

research

Indonesia 973

***Metroxylon* cont.**

research cont.

Sarawak 973

taxonomy, ethnobotany 976

Metroxylon sagu

fertilizers

nitrogen 979

phosphorus 979

potassium 979

plant, biochemistry 982

products, paper 980

seedlings, production, cultural methods 981

seeds, germination, seed treatment 981

suckers, production, cultural methods 4653

yields, Indonesia 983

Mexico*Begonia*, species 5193

Cactaceae

conservation 5218

cultural methods 5218

surveys 1585

Chamaedorea, conservation 2493*Citrus*, rootstocks 9878

coconuts, history 9946-9947

Cucurbita ficifolia, cultivars 5013

ethnobotany 10063

Eucheuma isiforme, production possibilities 10808

horticultural crops, production 4704

limes

climate 9871

surveys 9871

mangoes, cultivars 9974

melons, plant nutrition, surveys 2706

Opuntia, cultivars 10901

oranges

climate 9871

surveys 9871

Orbignya cohune, history 9947

Orchidaceae, cultural methods 5250

pawpaws, production possibilities 10984

Simmondsia chinensis, ecology 4467

wild plants, utilization, ornamental plants 5189, 5217

Mexipedium xerophyticum*, characteristics 10708**Microcitrus inodora*, *in vitro* culture, somatic embryogenesis 8899*****Microcyclus ulei*, *Hevea* 7348*****Microcystis elabens*, seed inoculation, okras 2267*****Microdochium panattonianum*, lettuces 8536*****Micromus angulatus***

control

of *Aphis gossypii*, vegetables 7649of *Aphis nasturtii*, vegetables 7649of *Myzus persicae*, vegetables 7649***Microsphaera azaleae*, *Rhododendron* 7092*****Microstobos fützerdii*, characteristics 2370*****Microtis parviflora*, mycorrhizas 702*****Microtus agrestis*, *Salix cinerea* 2513*****Microtus pennsylvanicus*, apples 1968*****Millingtonia hortensis*, *in vitro* culture, propagation, micropropagation 4425*****Miltonia***

flowers, development, assessment 9761

plant, development, assessment 9761

taxonomy, nomenclature 7056

Miltonia anceps*, cultural methods, USA 1611**Miltonia candida*, cultural methods, USA 6176*****Miltonia clowesii*, cultural methods, USA 6176*****Miltonia cuneata*, cultural methods, USA 6176*****Miltonia flavesces*, cultural methods, USA 6176*****Miltonia kayasimae*, cultural methods, USA 1611*****Miltonia regnellii*, cultural methods, USA 1611*****Miltonia russelliana*, cultural methods, USA 1611*****Miltonia spectabilis*, cultural methods, USA 6176*****Mimosa pudica*, leaves, ultrastructure 2511****Mint (see *Mentha*)*****Mirabilis jalapa*, flowers, senescence 4311****Mitochondria**

biochemistry

Arum italicum 6132*Capsicum* 479*Kalanchoe fedtschenkoi* 5243

peas 449, 2249, 2257, 4172, 8614, 9536, 9541

spinach 1299

frequency, *Pyrus* 8360physiology, storage, *Capsicum* 2284

ultrastructure, cucumbers 5022

Mokara*, *in vitro* culture, responses, carbon dioxide 703*Molasses, utilization, fertilizers, okras 466*****Mollugo verticillata* 7702**

as weeds

cabbages 7702

melons 9041

ornamental plants 1522

watermelons 9041

Molybdenum

deficiency, cucumbers 7734

fertilizers

Brassica 9478

cauliflowers 382-383, 4096, 9480

Litchi 855

strawberries 9478

vegetables 4948

plant nutrition

lettuces 8532

tea 11008

responses

mandarins 8960

tea 11002

toxicity

lawns and turf 10670

Pelargonium hortorum 4291*Tagetes patula* 9692***Momordica balsamina*, characteristics 10773*****Momordica boivinii*, characteristics 7032*****Momordica charantia***

characteristics 10773

cultivars, characteristics, China 3164

fertilizers

nitrogen 404, 10470, 10481

phosphorus 10481

flooding, tolerance 10465

flowers, sex, plant growth regulators 3189

fruits

quality

cultural methods 404

plant growth regulators 3189

insecticides, responses 7741

pest control

Aulacophora foveicollis 6823*Bactrocera cucurbitae* 8578

plant training, systems 4134

pollution, cement dust 465

products, oils 8587

rootstock scion relationships, flooding 10465

seedlings, emergence, pollution 465

seeds

composition 6834, 8587, 10791

production, cultural methods 10481

storage, treatment 6743

Momordica dioica

cuttings, sources, assessment 3166

planting

planting date 4132

spacing 4132

tubers, dormancy, plant growth regulators 6830

Momordica grosvenorii* (see *Thladiantha grosvenorii*)**Monasteira unicostata*, cherries 3815*****Monellia caryella*, pecans 2979*****Monelliopsis pecanis*, pecans 2979*****Monilinia***

nectarines 7552

plums 7552

temperate fruits 4721

Monilinia fructicola

grapes 8473

peaches 2965, 3884, 10218

Monilinia fructigena

apples 10164

cherries 6600

- Monilinia fructigena** *cont.*
nectarines 9294
peaches 9294
pears 10164
plums 3903, 10248
stone fruits 9163
- Monilinia laxa**
apples 10164
nectarines 9294, 9303
peaches 5662, 7447, 9294-9295, 9302-9303
pears 10164
plums 3903
stone fruits 9163
- Moniliophthora roreri**, cocoa 6390
- Monochamus leuconotus**, coffee 10928
- Monstera deliciosa**
fertilizers, nitrogen 10691
growing media, composition 10691
- Montmorillonite**, utilization, casing, mushroom 2346, 7846
- Monvillea kroenleinii**, taxonomy, nomenclature 6157
- Morchella**, taxonomy, cytotoxonomy 2361
- Morchella angusticeps**, mycelium, growth 3364
- Morchella conica**, biochemistry 576
- Morchella crassipes**, mycelium, growth 3364
- Morchella elata**, mycelium, growth 3364
- Morchella esculenta**, mycelium, growth 3364
- Morchella rotunda**, mycelium, growth 3364
- Morchella vulgaris**, mycelium, growth 3364
- Moricandia arvensis**
leaves, development, physiology 8779
mutants, physiology 3417
respiration, light 3417
- Moringa oleifera**
cultivars
assessment, India 8718, 8720
reproduction 8719
fertilizers
nitrogen 8718
phosphorus 8718
potassium 8718
in vitro culture, propagation, micropropagation 7169
irrigation, systems 8717
seeds, storage, seed treatment 9625
- Morning glories** (see *Ipomoea*; *Pharbitis*)
- Morocco**
Jerusalem artichokes, cultivars 8524
wild plants, edible species 2806
- Morus** (see also *Mulberries*)
- Mosses**
as weeds, lawns and turf 6143
utilization
propagation
Hevea 9069
mangoes 1824, 2720
reviews 8231
- Mucilages**, metabolism, environment, *Hypnea pannosa* 4471
- Mucor**
control
of *Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 6930
of *Pythium ultimum*, tomatoes 6930
- Mucuna pruriens**, *in vitro* culture, propagation, micropropagation 5342
- Muhlenbergia schreberi**, as cover crops, peaches 9287
- Mulberries**
disease control
China 172
phytoplasmas 5648
electrical properties, measurement 8848
in vitro culture
culture media 4822
somatic embryogenesis 4822
pest control
China 172
Pseudodendrothrips mori 10203
photosynthesis, plant nutrition 9277
plant nutrition, phosphorus 9277
- Mulching**
economics, temperate fruits 1058
materials
apples 1074, 1076, 1945, 1951, 7467, 8264, 8271
Aralia cordata 1495
- Mulching** *cont.*
materials *cont.*
aubergines 483, 3249, 9562
avocados 4483
bananas 1781, 8122
Capsicum 3238, 5484, 5999, 7774, 9562
carnations 10614
Citrus 8068
Cucurbita pepo 2300, 5897
garlic 332
grapes 3963, 6697
Hevea 9075
hops 9841
horticultural crops 8215
lettuces 4073
melons 6412
okras 9550
pears 7467
raspberries 1194, 2046, 4878, 7569
Rubus occidentalis 2045
tea 7357, 10010
tomatoes 505-506, 2299-2300, 6920, 8662
Vaccinium 8413
Vaccinium corymbosum 9353
watermelons 5484
- responses
almonds 10086
Annona squamosa 2670
apples 2870, 6555, 7467, 8267, 10110
Aruncus dioicus 10584
aubergines 3249
avocados 797, 2582, 3566, 9870
Bactris gasipaes 4651
broccoli 9424
Bupleurum falcatum 10779
cabbages 377, 8496
Capsicum 5995
carnations 10613
cauliflowers 377
Citrus 10086
coconuts 1800
fruit crops 1033
grapes 2870, 9397
Hevea 2747, 10997
horticultural crops 1047, 3720
lettuces 9424
mangoes 9980
melons 3665, 4609, 6412
Mentha arvensis 2530
mushrooms 2348
Ocimum basilicum 5934
peaches 10218
pears 7467
Pelargonium hortorum 9672
Phaseolus vulgaris 5934, 6842, 8496
raspberries 7569, 8408
Salvia officinalis 3529
strawberries 7587
tea 10008
temperate fruits 3743
tomatoes 504-505, 1441, 1446, 6014, 6019, 8496, 8660-8661, 9424, 9586
Vaccinium corymbosum 1199, 3009
Vaccinium darrowii 1199
walnuts 10086
watermelons 2702
- Munronia pumila**, *in vitro* culture, propagation, techniques 10792
- Murraya koenigii**
in vitro culture
culture media 4437
propagation, micropropagation 4437
- Murraya paniculata**
growth retardation, plant growth regulators 7115
in vitro culture, explants, sources 10739
- Musa** (see also *Bananas*)
as shade plants, coffee 3659
cropping systems, agroforestry 1795
drought, resistance, cultivars 3642
leaves, physiology 3642
seeds
anatomy 5455
composition 5455
germination, assessment 5455
- Musa acuminata**
drought, resistance, cultivars 3642
- Musa acuminata** *cont.*
in vitro culture, propagation, micropropagation 2676
leaves, physiology 3642
- Muscari**, as weeds, olives 8097
- Muscari anatolicum**, taxonomy, new taxa 2400
- Muscari armeniacum**, taxonomy, nomenclature 8794
- Muscari comosum**
seeds, cytology 660
wild plants, edible species 2806
- Mushroom compost**
utilization
fertilizers
Cucurbita pepo 8670
Phaseolus vulgaris 8670
tomatoes 8670
growing media
Diospyros oldhami 2655
persimmons 2655
soil amendments
broccoli 4940
cabbages 4940
peas 7757
Phaseolus vulgaris 4940
tomatoes 4940
- Mushrooms** (see also *Edible fungi*)
abnormal development 3339
biochemistry 569-570, 3347-3349, 3351, 4268, 6064, 6973
books 10031
browning, biochemistry 3340
casing 564-565, 2338-2339, 2345-2347, 3336, 3352, 7846, 7848
colour
cultural methods 3344
irrigation 9631
composition 3344, 5580, 7851, 8722
nitrogen 4267
proteins 4267
conferences 1881
cultivars, assessment, China 6974
cultural methods
Belgium 8725
Europe 8726
Netherlands 2341
drying, temperature 2342
economics, Netherlands 2341
fertilizers
nitrogen 6065
phosphorus 6065
potassium 6065
fructification 2337, 2351, 3339, 10586
fungicides, residues 3338
growing media
composition 567, 2344, 3345, 3347, 6970
microorganisms 2343, 2345
temperature 9629
utilization 1500, 2337
water relations 566, 3346
weed moulds 571
harvesting
equipment 6975, 8229
techniques, mechanical harvesting 2350
work study 2340
irrigation
responses 4269
water, composition 3344, 9631
mechanical properties, storage 3353
mulching, responses 2348
mycelium, growth 568, 2343-2344, 3346, 8727
nutritive value 4267
pest control
Aphelenchoides composticola 1501
Bradysia fucorum 6066
Dohnniphora 7850
insects 7847
Lycoriella auripila 3337, 7848
Lycoriella fucorum 6063
Lycoriella mali 7849
Megaselia halterata 7848
Nematoda 524
plant nutrition
cobalt 565
copper 3345
nitrogen 3351
pollution, heavy metals 1499

Mushrooms *cont.*

- production
 - Central America 2335
 - South Africa 2336
 - South America 2335
 - production possibilities
 - Argentina 7403
 - Vietnam 5147
 - products, enzymes 3335
 - quality
 - assessment 3341, 3350
 - cultural methods 2353
 - reports, Belgium 8190
 - respiration, temperature 9629
 - senescence 8723
 - biochemistry 3334
 - soil amendments 2349
 - spawn, production 567, 1498
 - storage
 - anatomy 3343
 - humidity 9630
 - quality
 - assessment 3353
 - irrigation 9630
 - systems
 - cold storage 6062
 - controlled atmosphere storage 6062
 - modified atmosphere storage 3342, 4269, 5146
 - treatment 10587
 - yields
 - correlation 2352, 8724
 - pests 4270
- Myanmar**, onions, production 5808
- Mycocentrospora acerina**, *Carum carvi* 1673
- Mycocentrospora cladosporioides**, olives 4546
- Mycophila barnesi**, mushrooms 4270
- Mycorrhizas**
- apples 5607, 10119
 - Asparagus* 5062, 6119, 10512
 - aubergines 6002
 - Bactris gasipaes* 1855
 - bananas 4574
 - Caladenia latifolia* 4372
 - Capsicum* 1413, 4692
 - carrots 10578
 - Cassia siamea* 3540
 - Castanea mollissima* 3821
 - cherries 1132
 - chives 10395
 - Cistus ladanifer* 1644
 - citranges 1717
 - Citrus* 9887
 - Citrus limonia* 8060
 - coffee 1805, 3660, 9028
 - cucumbers 402-403, 5018
 - Cyamopsis tetragonoloba* 3209
 - Cymbopogon winterianus* 7141
 - Dactylorhiza* 2436
 - Dieffenbachia maculata* 4692
 - Diuris magnifica* 4372
 - endives 4692
 - Ericaceae 6510
 - Gastrodia elata* 6283
 - Gerbera* 606, 4692
 - grapes 274, 5752, 6705
 - hazelnuts 5152, 7856
 - horticultural crops 877
 - kiwifruits 1187
 - leeks 2124, 5791, 6748
 - lettuces 4074, 4692, 4992, 9461, 10548
 - Malus* 5599
 - Malus toringo* 10119
 - mandarins 8060
 - medicinal plants 10772
 - Microtis parviflora* 702
 - onions 6753, 9444, 10382
 - oranges 1717, 8054, 8061
 - Orchidaceae 694, 6167, 8833, 10696
 - Orchis morio* 2436, 2449
 - ornamental plants, reviews 1523
 - pawpaws 9062, 9991
 - peaches 5657
 - peas 441, 10501
 - plums 203, 8382
 - Pterostylis acuminata* 7066
 - Pueraria phaseoloides* 938
 - satsumas 3587, 5377

Mycorrhizas *cont.*

- Simmondsia chinensis* 781
 - sour oranges 7201, 9881
 - Spiranthes odorata* 705
 - strawberries 1209, 2059, 3941, 4692
 - Tagetes* 6119
 - Tagetes erecta* 7013, 10634
 - tea 955
 - temperate fruits, reviews 1920
 - tomatoes 3275, 8669, 8678, 9591, 10548, 10553, 10560
 - Vaccinium corymbosum* 7573, 7575
 - Vaccinium macrocarpon* 5710, 8414
 - Vicia faba* 5954
 - Welsh onions 3101
 - Zinnia elegans* 4692, 7013, 10634
 - Ziziphus mauritiana* 5518
 - Ziziphus nummularia* 3691, 5519
 - Ziziphus xylopyrus* 11017
- Mycosphaerella brassicicola**
- Brussels sprouts 9430
 - cabbages 4101, 9430
- Mycosphaerella fijiensis**, bananas 2677, 4573, 6374-6375, 8123, 9002, 9009
- Mycosphaerella fijiensis** *var. difformis*, bananas 3648
- Mycosphaerella fragariae**, strawberries 1202, 1211, 4882, 7581
- Mycosphaerella musae**, bananas 4572
- Mycosphaerella musicola**, bananas 4572, 4581
- Mycovellosiella phaseoli**, *Phaseolus vulgaris* 1381
- Myloccerinus aurolineatus**, tea 8165
- Myloccerus suspiciens**, pears 7533
- Myoporum**
- ornamental value 768
 - wild plants, utilization, Australia 768
- Myosotis**, pot plants, production, cultural methods 10609
- Myosotis arvensis**
- as weeds
 - Oenothera biennis* 770
 - vegetables 320
- Myoxanthus**, taxonomy, nomenclature 9758
- Myrciaria cauliflora**, production possibilities, Malaysia 9130
- Myrciaria dubia**
- seeds
 - germination, temperature 10022
 - morphology 10022
- Myrica cerifera**, shade, responses 5160
- Myrica gale**, production possibilities, UK 7152
- Myrica rubra**
- plant, composition 7259
 - seedlings, development, cultural methods 5449
 - seeds, treatment 5449
 - wild plants, edible species 1917
- Myristica fragrans**, cultural methods, India 2517
- Myristica inispida**, wild plants, edible species 1018
- Myzocallis coryli**, hazelnuts 1140
- Myzus**, tomatoes 4946
- Myzus cerasi**
- cherries 5640
 - fruit crops 7479
- Myzus persicae**
- Capsicum* 4946, 7649, 8633
 - cucumbers 3285, 7649
 - fruit crops 7479
 - kale 5847
 - lettuces 5847
 - peaches 8355, 9296, 10214
 - Rhododendron simsii* 2481-2482
 - Schefflera venulosa* 2481-2482
 - tomatoes 3285, 7649
 - turnips 5006
- Namibia**, *Gracilaria*, ecology 1699
- Napomyza gymnostoma**, onions 3096
- Narcissus**
- bulbs
 - composition 9708
 - treatment 10651
 - disease control, *Fusarium oxysporum* f.sp. *narcissi* 10651
 - plant
 - development
 - plant water relations 9707

Narcissus *cont.*

- plant *cont.*
 - development *cont.*
 - seasons 9707
 - temperature 9707
 - planting stock, overwintering 6121
 - pot plants, production, cultural methods 6121
 - production, models 8783
- Narcissus pseudonarcissus**
- flowers, colour, biochemistry 4329
 - plastids, biochemistry 4329
- Nashi pears** (see *Pyrus pyrifolia*)
- Nasturtium** (see also *Watercress*)
- Natsudaids**, fruits, composition 4533
- Natsudaids** × *Poncirus trifoliata*, as root-stocks, *Citrus hassaku* 5367
- Natrassia mangiferae**, mangoes 10975-10978
- Nectar**
- apricots 9250, 9257
 - Chamaelucium uncinatum* 10731
 - Cucurbita pepo* 5921
 - Dimocarpus longan* 6350
 - Liichi* 4543
 - Rhododendron* 2483
- Nectarines**
- Abutilon pictum* 7099
 - apricots 9249
 - Chamaelucium uncinatum* 2495, 10731
 - Cucurbita pepo* 5921, 8585
 - Euphorbia* 3487
- Nectarines**
- conferences 3710
 - cultivars
 - books 4
 - characteristics
 - Australia 3835
 - books 989
 - China 4824, 5652, 10207
 - France 3833, 6611
 - Italy 5651, 9280
 - South Africa 6612
 - USA 1997-1998, 3833, 6611
 - disease resistance 174, 5650
 - pest resistance 1892
 - cultural methods, books 4
 - disease control
 - Botrytis cinerea* 9294
 - Monilinia fructigena* 9294
 - Monilinia laxa* 9294, 9303
 - Penicillium expansum* 1156, 9294
 - Rhizopus stolonifer* 9294
 - Sphaerotheca pannosa* 1046
 - Taphrina deformans* 3867
 - USA 9293
 - diseases, books 995
 - disorders
 - books 995
 - breakdown 7552
 - chilling injury 184
 - woolliness 2009
 - fertilizers
 - nitrogen 3862
 - potassium 3862
 - flowers, ultrastructure 5666
 - fruits
 - aroma
 - biochemistry 3885
 - storage 7524
 - characteristics 10219
 - colour
 - assessment 9298
 - cultivars 9298
 - ripening 9298
 - composition 3885
 - development, assessment 180, 6626
 - flavour, storage 7524
 - maturity, assessment 3880-3881, 4838
 - physiology 9306
 - quality
 - assessment 9304
 - irrigation 4832
 - maturity 9304
 - ripening
 - assessment 6626
 - biochemistry 2007, 3882
 - cultivars 9298
 - storage 7524
 - thinning, plant growth regulators 7449

Nipaeococcus viridis, pomegranates 6365

Nitrate

- plant nutrition, *Lilium japonicum* 10648
- responses, melons 1815

Nitrates

composition

- Amaranthus* 4257
- beetroots 3104-3105, 9452
- broccoli 2182
- cabbages 2183
- carrots 3318, 10468
- Chinese cabbages 7705, 9474, 10442
- cucumbers 10468
- fruit crops 9152
- lettuces 364, 2171, 2173, 3128, 4075, 4083, 4984, 8533, 9464
- onions 3094
- spinach 6772, 10404
- vegetables 2118, 9152

determination, tomatoes 8668

metabolism

- cultural methods, Chinese cabbages 6786

fertilizers

- beetroots 345
- cabbages 2183
- grapes 10331
- lettuces 7689, 7695, 9463
- spinach 8518
- harvesting date, beetroots 345
- humidity, tomatoes 9596
- in vitro* culture, tomatoes 3302
- irregular bearing, mandarins 7215
- irrigation, tomatoes 504
- light, *Basella alba* 4260
- rootstock scion relationships, cucumbers 4131
- seasonal variation, lettuce 372, 8534
- soilless culture
- Brassica campestris* 3110
- spinach 3110, 4055
- storage, carrots 8709
- temperature
- cucumbers 4131
- tomatoes 8685

plant nutrition

- Brassica campestris* 3110
- broccoli 2182
- Dactylorhiza incarnata* 2442
- Opuntia ficus-indica* 4564
- spinach 3110
- tomatoes 4222
- Vaccinium ashei* 2051

responses

- citranges 8064
- garlic 2120
- mandarins 8064

toxicity, horticultural crops 1029

uptake

- cucumbers 5907
- Cucurbita maxima* 2203-2204
- lettuces 6780
- radishes 4125
- squashes 2202
- Vaccinium corymbosum* 3927

Nitric oxide, emission, peas 9540

Nitrites

composition

- lettuces 2171, 2173
- vegetables 2118

metabolism

- fertilizers, lettuce 7689
- storage, carrots 8709

Nitrogen

application, irrigation, apples 2879

application date

- figs 2943
- grapes 3048

application methods

- apples 2881
- cauliflowers 7706
- peaches 2954
- pears 2954
- raspberries 3922

composition

- apples 2922, 4804, 7473
- apricots 9264
- black currants 7566
- cherries 1134, 2933
- Coriandrum sativum* 10748
- edible fungi 3331

Nitrogen cont.

composition cont.

- grapefruits 5370
- Juglans* 10261
- kiwifruits 2993
- mangoes 1836
- mushrooms 3344
- olives 3619
- Pancratium maritimum* 771
- plums 4855
- Pyrus* 3895
- Syzygium jambos* 9110
- tea 10018
- walnuts 8392

deficiency

- apples 3783
- apricots 9238
- carinations 598
- cucumbers 1357, 7734
- grapes 267
- Laelia cinnabarina* 7059
- Litchi* 8090
- mangoes 7325
- olives 8100
- Pyrus* 2968
- Rhododendron* 4400
- Rosa damascena* 7148

determination

- Acer freemanii* 9796
- Acer rubrum* 9796
- Citrus* 826
- guavas 2717
- mushrooms 4267
- tomatoes 6512

fertilizers

- Anethum graveolens* 8004, 9826
- apples 97, 105, 1090, 1123, 1954-1955, 2876-2881, 2884, 6561-6562, 6578, 7477, 8280-8283, 8307, 8365, 10121, 10137, 10166
- Arachniodes adiantiformis* 8818
- aubergines 8642, 8644, 9570
- avocados 6302, 6304-6305, 6308
- bananas 1787, 3648, 7274, 9008, 10910
- beetroots 345, 3104, 9452
- blackberries 10278
- Borassus flabellifer* 1856
- Brassica campestris* 4110
- broccoli 6789
- Brussels sprouts 1331, 10439
- cabbages 4097, 5866, 8551, 9477, 10438, 10443
- Calendula officinalis* 4297
- Cannabis sativa* 6275
- Capsicum* 473, 1414, 3244, 4187-4189, 5074-5075, 5993, 6900, 8626, 8628, 8643
- carrots 6956, 7840, 8703, 9620
- cashews 1793, 2680, 9940, 9942-9943, 10913
- cauliflowers 377, 381, 4096, 4098, 6789, 10435
- celery 8711
- Chamaecyparis lawsoniana* 2479
- Chamelaucium* 8869-8870
- cherries 1135, 2933-2934
- chicory 5844
- Chinese cabbages 7705
- chrysanthemums 3388
- Citrus* 4504, 4509, 5378, 7203
- clementines 6327
- coconuts 5473
- Codiaeum* 7920
- coffee 5480, 10925
- Corchorus tridens* 4261
- Coriandrum sativum* 3083, 3522, 4434, 5300-5301, 7988, 8004, 9826, 10748, 10757
- cucumbers 9508
- Cucurbita moschata* 3169
- Cuminum cyminum* 745, 1663
- Curcuma longa* 1664
- Cyamopsis tetragonoloba* 745
- Cymbopogon martinii* 10759
- Cymbopogon winterianus* 10760
- Cypripedium macranthum* 10704
- Dahlia pinnata* 6123
- dates 7231
- Dieffenbachia* 7920

Nitrogen cont.

fertilizers cont.

- Dioscorea deltoidea* 2545
- Dracocephalum moldavica* 8029
- Elettaria cardamomum* 6260
- Eruca vesicaria* subsp. *sativa* 9826
- Eutrema wasabi* 3159
- figs 1142, 2943
- fruit crops 1059
- Gaillardia pulchella* 7874
- garlic 1275-1277, 3083, 4950, 5786, 6747, 7657, 10370
- Gloriosa superba* 3545
- gooseberries 4874
- grapefruits 5370, 5378, 8063
- grapes 267, 1238, 1249, 3048, 3052, 4916, 6704, 8466, 9393, 10330-10331
- guavas 914, 4616, 5493, 6426
- Hevea* 942
- Hibiscus sabdariffa* 9865
- Hyoscyamus muticus* 10785
- Ilex vomitoria* 6190
- Jasminum auriculatum* 7953
- Juglans nigra* 10258
- kiwifruits 2992-2993
- kohlrabi 4993, 5003, 8531
- lawns and turf 2419, 2423, 3445, 4347-4350, 5210-5211, 9723
- leeks 1282, 9435, 10439
- lemons 7204
- lettuces 1309-1311, 2163, 2170-2174, 3128, 4075, 4987, 4993-4994, 7695, 8531, 8533, 9461, 9463-9464
- Lilium leichlinii* 6885
- Litchi* 854
- Maackia amurensis* 4422
- mandarins 4520, 5381
- mangoes 1827, 10954
- Maytenus aquifolium* 5341
- melons 1816, 6416, 8143, 10934
- Mentha arvensis* 2530
- Mentha piperita* 9831
- Metroxylon sagu* 979
- Momordica charantia* 404, 10470, 10481
- Monstera deliciosa* 10691
- Moringa oleifera* 8718
- mushrooms 6065
- nectarines 3862, 4832
- Nymphoides indica* 5215
- oil palms 925, 9985
- okras 510, 1408, 2268, 3228, 9551, 10521
- olives 3625, 10881
- onions 1288, 3083, 3094, 4959, 4963, 5075, 5822-5823, 7667-7669, 7674, 8506-8508, 9443
- oranges 4503, 5378, 8063
- passion fruits 8106
- pawpaws 7345
- peaches 2001, 2953, 2965, 3863, 4833, 8347, 8350, 9290-9291
- pears 8364-8365
- Pelargonium hortorum* 9671
- Petroselinum crispum* 9826
- Phalaenopsis* 7940
- Phaseolus vulgaris* 5936, 8593
- pineapples 933, 2734
- Piper betle* 6298, 8048, 9866
- Pleurotus* 3366
- plums 204
- poinsettias 4396
- Polianthes tuberosa* 7905-7906, 9715, 10660, 10663
- Radermachera sinica* 4368
- radishes 8560
- raspberries 10282
- Rhododendron* 4399
- Rosa damascena* 9835
- roses 3494, 6200, 7960
- Salvia sclarea* 5322
- satsumas 10841
- Silybum marianum* 8042
- spinach 1294-1295, 6763, 8518, 10521
- spinach beets 6773
- Stevia rebaudiana* 8051

Nitrogen cont.

fertilizers cont.

strawberries 1210, 2065, 4885, 4889-4891, 5730-5731, 8428, 9367, 10295

tea 953, 956-957, 3686-3687, 5512-5514, 6453, 8166, 9092, 11006

Telfairia occidentalis 10469

tomatoes 492, 510, 2303, 3262, 3276, 3278-3279, 3286, 4223, 4225, 5085, 5098-5100, 5125, 6016, 6024, 6924-6926, 8643, 8672, 8818, 9595, 9597, 10549

Trichosanthes dioica 6815

Trigonella foenum-graecum 2567, 10585

Uniola paniculata 4318

Vaccinium 4880

Vaccinium angustifolium 7576

Vaccinium corymbosum 3009, 3927, 7575

vegetables 4091, 4942-4943, 4948, 8498, 10362

Ziziphus sativa 11016

fixation

carrots 6045

Cyamopsis tetragonoloba 2243

Myrica rubra 5449

isotopes, grapes 4001

metabolism

biochemistry, mushrooms 3351

climate, grapes 3054

cultivars

grapes 3043

plums 4857-4858

cultural methods

chrysanthemums 605

grapes 1253, 3038

peaches 9291

development

carambolas 6464

plums 9326

diseases, okras 5991

disorders, mangoes 7331

environment, grapes 3043

fertilizers

Alocasia regina 7042

apples 2885

cucumbers 6818

spinach beets 6773

growing media

Cupressus sempervirens 9772

tomatoes 10547

harvesting, *Banksia hookeriana* 7103

humidity, tomatoes 9596

intercropping, mangoes 10950

irregular bearing

apples 2913

mandarins 7215

irrigation

oranges 4499

pomegranates 10898

tomatoes 4215

light, *Cupressus sempervirens* 9771

manganese

apples 1082

pears 1082

molybdenum, tea 11008

mulching, raspberries 8408

mutants, grapes 300

mycorrhizas

Asparagus 10512

cherries 1132

cucumbers 402

tomatoes 8669

phosphorus

peaches 2955

pears 2955

tomatoes 3281, 8669

Ziziphus sativa 3692

physiology

Acorus calamus 9710

cucumbers 6828

plant growth regulators

Pistacia lentiscus 2576

pomegranates 10898

potassium

figs 170

mangoes 9979

peaches 2956

pears 2956

Nitrogen cont.

metabolism cont.

pruning, pears 3888

rare earth elements, satsumas 4507

ripening, plums 9326

rooting, peaches 3838

rootstock scion relationships

cherries 4812

grapes 3975, 7603

limes 10826

peaches 3844

tomatoes 5092, 8656

salinity

Annona squamosa 6372

Capsicum 5998, 8627

grapes 8459

guavas 9050

Phyllanthus emblica 2779

tomatoes 1449, 5102

Ziziphus rotundifolia 11018

seasonal variation

algae 3325

apples 4773

Asparagus 3226

Calliblepharis jubata 10806

grapes 3038, 3966, 4930

peaches 10213

Protea 741

Spondias purpurea 2781

Vaccinium 3008

walnuts 8391

Ziziphus sativa 11016

sex,

spinach 8523

shade, grapes 1253

soil amendments, avocados 3571

soil pH, *Vaccinium* 1200

soil water, grapes 3054

soilless culture

tomatoes 507

Vaccinium 3008

temperature, vegetables 5772

zinc

lemons 7205

tea 11008

nitrification inhibitors

Chinese cabbages 7705

Mentha arvensis 8014

oranges 8062

nutrition, *Lentinula edodes* 575

plant nutrition

apples 106, 1954, 1956, 2826, 2869,

2875, 2883, 4753, 6560-6561,

7476, 10122, 10166-10167

avocados 811

Basella alba 4260

blackberries 10279

Brassica campestris 3110, 10445

Brassicaceae 7703

Brussels sprouts 7707, 10439-10441,

10451

cabbages 1325, 5866

Capsicum 3237, 4189

carrots 7836

cashews 1794

cauliflowers 3143, 4096, 7704

celery 8710

chicory 5844

Chinese cabbages 10442

chrysanthemums 5171, 10619

Citrus 4504

Clematis vitalba 5283

coconuts 5471

coffee 5479

cucumbers 6816-6817, 8568-8569

Cyamopsis tetragonoloba 5962

Cymbidium sinense 5256

Dactylorhiza 2436, 2441

fruit crops 1059, 2825

Gracilaria 10809

grapefruits 8063

grapes 3048-3049, 9396

Gypsophila paniculata 6112

horticultural crops, reviews 4693

Ilex vomitoria 6190

Ipomoea tricolor 5173

kiwifruits 3910

Laelia cinnabarina 7059

lawns and turf 2423, 6142

leeks 7663, 10439-10440, 10451

lettuces 365, 1310, 7695, 8532

mandarins 3588, 5381

Nitrogen cont.

plant nutrition cont.

mangoes 1827, 1830, 7325, 10953, 10955

melons 9043

mushrooms 6064

Ocimum basilicum 8016

Oenothera biennis 3548

oil palms 925

olives 863

onions 2133-2134

oranges 1723, 4503, 8063

Orchis morio 2436, 2449

Panax pseudoginseng 7171-7172

peaches 2953

pears 10122

peas 5965, 10502

Phaseolus vulgaris 5936, 9524

Piper nigrum 4439

plums 2826, 4855

poinsettias 4396

pot plants 9647

radishes 8559

raspberries 2826, 10282

roses 7961

satsumas 10842

Solieria chordalis 1707

spinach 3109-3110

squashes 2202

strawberries 5729, 10295

temperate fruits, reviews 2823

tomatoes 5101, 6016, 8668

Trigonella foenum-graecum 2566

tulips 7900

Vaccinium ashei 2051

Vaccinium corymbosum 10283

vegetables 2114, 10362

Vicia faba 2241, 5955

Ziziphus xylopyrus 11017

requirements

analysis

apples 8279

cabbages 4094

fruit crops 7444

grapes 6704, 9393

guavas 8147

horticultural crops 2814

Litchi 854

peaches 2000

Spondias purpurea 2781

strawberries 9366

tea 3687

tomatoes 7805, 8668

Volvariella speciosa 6079

assessment, temperate fruits 2843

determination

grapefruits 5375

oranges 5380

responses

avocados 815

beetroots 4967

Catharanthus roseus 3542

Chinese cabbages 6786

grapes 6719, 8483

mandarins 8960

onions 3094

peas 6871

Pleurotus 578

Poncirus trifoliata 8943

toxicity

grapefruits 8063

oranges 8063

translocation

apples 2882, 7475

Citrus 4504

tomatoes 4236

uptake

algae 3557

Andrographis 5332

apples 107, 2864, 2882, 4764, 7474-

7475, 8281, 8283

bananas 10910

Brussels sprouts 10439

cabbages 4097

Capparis 6244

carobs 3581

cauliflowers 409

Nitrogen cont.

uptake cont.

- cultural methods, tomatoes 6014
- garlic 1275, 4024
- grapes 3034, 3041-3042, 3047, 8466
- Hevea* 2742
- Hibiscus sabdariffa* 9865
- Impatiens* 4307
- kiwifruits 2992
- Lactuca indica* 2161
- leeks 10439
- lettuces 3129, 4988, 4996, 6780
- Lilium leichtlinii* 10518
- mangoes 1827
- melons 909
- Moringa oleifera* 8718
- Nyssa sylvatica* 6230
- onions 3094, 5822
- oranges 3607
- ornamental plants 3376
- Papaver somniferum* 5343
- peaches 2001
- Petunia* 2161
- Phaseolus vulgaris* 2229, 5935
- Quercus rubra* 6230
- radishes 2193
- raspberries 3922
- roses 7961, 9785
- spinach 6763
- strawberries 5729
- tea 7358, 11008
- tomatoes 1447-1448
- Vaccinium corymbosum* 3927
- Vaccinium macrocarpon* 7574
- Valerianella locusta* 3129
- vegetables 1330, 4942, 4948
- Ziziphus mauritiana* 1853

Nitrogen oxides, responses, lettuce 10411*Nitzschia closterium*, plant, biochemistry, temperature 5347*Nitzschia paleacea*, plant, biochemistry, temperature 5347**Noctuidae**

- strawberries 1211
- vegetables 3147

Nomocharis aperta, cultural methods, UK 3438*Nomocharis farreri*, cultural methods, UK 3438*Nomocharis meleagrina*, cultural methods, UK 3438*Nomocharis pardanithina*, cultural methods, UK 3438*Nomocharis saluenensis*, cultural methods, UK 3438*Nomocharis synaptica*, cultural methods, UK 3438*Nopalea* (see *Opuntia*)**North America**

- apples, rootstocks, research 79
- ethnobotany 6527
- onions, cultivars 4033
- Opuntia*, utilization 7256
- pears, cultivars, books 10034

Northern Europe, onions, cultivars 4033**Norway**

- cherries, marketing 166
- Plantago lanceolata*, production 4466

Nostoc linckia, seed inoculation, okras 2267*Notonia* (see *Senecio*)**Nuclear polyhedrosis viruses**

control

- of *Helicoverpa armigera*, tomatoes 10554

- of *Plutella xylostella*, cabbages 5007

Nucleic acids

- characterization, persimmons 6364
- composition, *Stachys sieboldii* 6967
- determination, olives 8989
- metabolism

- abscission, tomatoes 1464
- biochemistry, apples 4786
- carbon dioxide, tomatoes 1462
- development
- Asparagus* 660
- Haemanthus katherinae* 660
- Muscari comosum* 660
- germination
- Phaseolus vulgaris* 5932
- tomatoes 3257

Nucleic acids cont.

metabolism cont.

in vitro culture, *Rhynchostylis retusa*

7942

photoperiod, cherries 8333

plant growth regulators

apples 123

cucumbers 5028-5029

Cucurbita pepo 5030*Mesembryanthemum crystallinum* 3454

strawberries 258

tomatoes 1464

polyamines, apples 123

salinity

Capsicum 5998*Mesembryanthemum crystallinum* 3454

tomatoes 2314, 4238

seasonal variation, apples 2908

seed treatment

cauliflowers 1344

tomatoes 2288, 8652-8653

senescence

Clivia miniata 656*Mirabilis jalapa* 4311*Rhoeo spathacea* 656

temperature

Amaranthus lividus 557

cucumbers 410

Cucurbita ficifolia 410*Mesembryanthemum crystallinum* 3454

water stress

Mesembryanthemum crystallinum 3454

tomatoes 2314

wounds, tomatoes 2310

taxonomy

Allium 8512

apples 7451

Lactuca 8529

peas 7752

Nucleosides, responses, *Vicia faba* 1383**Nucleotides**

composition, tea 7368

determination

peas 8611

spinach 8611

metabolism

biochemistry, coffee 7307

pollination, *Hibiscus rosa-sinensis* 4418senescence, *Mirabilis jalapa* 4311*Nuphar lutea*, wild plants, ecology 3446**Nursery stock** (see Planting stock)**Nut crops**

conferences 10060

cultivars, characteristics, USA 2810

cultural methods, books 6470

pest control, *Çiçadellidae* 6517

plant nutrition, books 4663

production, Brazil 6488

production possibilities, Gabon 5552

reports

Australia 7401

Malawi 10059

Netherlands 5550

USA 10060

research, USA 63

surveys, Vanuatu 10904

yearbooks 1001, 1876

Nutmegs (see *Myristica fragrans*)**Nutrients**

cycling

Piper nigrum 9820

walnuts 8390

metabolism

mycorrhizas

Citrus limonia 8060

mandarins 8060

phosphorus

Citrus limonia 8060

mandarins 8060

seasonal variation, *Ziziphus sativa* 11016

requirements

analysis

Anacampsis pyramidalis 9756

apples 8279

Asparagus 3226

Nutrients cont.

requirements cont.

analysis cont.

bananas 3649

bedding plants 9656

carnations 598

Citrus 5376

Clematis 3504

coconuts 7261

cucumbers 324

Cupressus arizonica 3478

grapes 3974

Hevea 7261

horticultural crops 323

Leucadendron 737

Litchi 8090, 10876

mandarins 3585

oil palms 7261

olives 8100

oranges 3585

peaches 175, 2000, 3861, 8349

persimmons 868

plants 7417

plums 10252

Protea 737, 741

pummelos 3585

Rhododendron 4400

stone fruits 10088

tomatoes 324

Volvariella speciosa 6079

Ziziphus mauritiana 1853

assessment

apples 2873, 3783

cabbages 4094

cherries 1134

Eucheuma denticulatum 6296

grapes 3043-3045, 9391

kiwifruits 2991

lawns and turf 2423

mangoes 7325, 10953

peaches 2951-2952

Petunia 7001

Pyrus 2968

Rosa damascena 7148

tea 9094

surveys, Turkey, apricots 9238

translocation

Banksia hookeriana 7102

cucumbers 8570

grapes 9403

uptake

analysis, shallots 5832

assessment

Andrographis 5332

black currants 1191

celery 8710

oranges 3607

spinach 1294

bacteria

Capsicum 5075

onions 5075

bananas 8121

chromium, tomatoes 511

climate, grapes 3054

cultivars, tomatoes 8671

cultural methods, grapes 3038

drought, grapes 3975

fertilizers

Brassica 9478

guavas 7317

tea 6456

tomatoes 6926

herbicides, oranges 6325

humates, culinary herbs 751

irrigation

apples 6553

olives 3619

models

greenhouse crops 3725

tomatoes 8683

mycorrhizas

Capsicum 5075

onions 5075

peaches 5657

tea 955

plant growth regulators, *Forsythia*

intermedia 2501

rootstock scion relationships

grapes 3032, 3975

mangoes 5495

tomatoes 5092

Nutrients cont.

uptake cont.

salinity

dates 9898

guavas 9050

seasonal variation

cashews 6385

grapes 3042

Lilium leichlinii 10518*Vaccinium* 3008soil, *Tanacetum vulgare* 2565soil pH, *Vaccinium* 1200

soil structure, grapes 3041

soil temperature, grapes 3041

soil water, grapes 3054

soilless culture

roses 8861

Vaccinium 3008

temperature, mangoes 4630

Vaccinium macrocarpon 7574**Nutritive value**

algae 3325

Annona coriacea 8110*Asparagus* 462

bananas 4587

beetroots 4968

Collybia maculata 3363

dates 848

edible fungi 1497, 3331

reviews 6970

Ficus 10202

figs 3828

fruit crops 1916

Lentinus cladopus 3363*Lentinus squarrosulus* 3363

loquats 8979

Malus micromalus 10168

mushrooms 4267

Osmunda japonica 1497

persimmons 4561

Prunus humilis 4818*Pterocarpus mildbraedii* 6058*Rubus* 9348

vegetables 1916, 4014, 7653

Vernonia amygdalina 2176**Nuts**

quality

fertilizers, cashews 9942

plant growth regulators, cashews 9942

Nymphaea

plant, anatomy 9730

propagation, techniques 2429

transpiration, measurement 9730

Nymphaea colorata, pollen, development,

ultrastructure 4358

Nymphaea daubenyana, propagation, tech-

niques 2429

Nymphoides indica

fertilizers

nitrogen 5215

phosphorus 5215

potassium 5215

geographical distribution 7915

taxonomy, morphology 7915

Nyssa sylvatica

fertilizers

nitrogen 6230

phosphorus 6230

potassium 6230

planting stock, production, cultural meth-

ods 6185, 6230

Oats

as cover crops

apples 7466

tea 953

Ochagavia elegans, cultural methods, UK

3447

Ocimum americanum, harvesting, harvesting

date, assessment 8015

Ocimum basilicum

cultivars, assessment, Russia 2531

cultural methods, containers 3512

disease control

Fusarium oxysporum f.sp. *basilicum* 1047, 1666*Glomerella cingulata* 746

disorders, chilling injury 6266

economics, Argentina 3723

harvesting, harvesting date, assessment

8015

Ocimum basilicum cont.

herbicides, tolerance 2377

leaves

biochemistry 6266

senescence 6257

vascular system 9153

mulching, responses 1047, 5934

nutrients, uptake, humates 751

plant, development, plant nutrition 10761

plant nutrition

nitrogen 8016

phosphorus 8016

potassium 8016

protected cultivation

cultural methods 5315

heating systems 5934

salinity, responses 9832

seeds, germination, salinity 9832

soil solarization 1047

soilless culture

nutrient solutions

composition 751

pH 751

translocation, physiology 6248

weed control 2377, 7145

Ocimum gratissimum

cuttings, cultural methods 8905

harvesting, harvesting date, assessment 8015, 10762

Ocimum kilimandscharicum, harvesting,

harvesting date, assessment 8015

Ocimum sanctum, harvesting, harvesting

date, assessment 8015

Ocimum viride, harvesting, harvesting date,

assessment 8015

Odoiporus longicollis, bananas 3650**Odontoglossum cruentum**, taxonomy, mor-

phology 6177, 7938

Odontoglossum epidendroides, taxonomy,

morphology 2448

Odontoglossum harryanum, cultural meth-

ods, UK 10709

Odontoglossum ringspot tobamovirus,

Orchidaceae 695

Odontoglossum tenuifolium, taxonomy, new

taxa 9762

Oenanthe javanica

leaves, composition 6961

shoots, composition 6961

soilless culture

nutrient solutions

composition 3074

pH 3074

temperature 3074

Oenothera

surveys

Czech Republic 1687

Poland 1687

Slovakia 1687

Oenothera biennis

geographical distribution 1687

in vitro culture, propagation, micropropa-

gation 769

reproduction, plant nutrition 3548

seeds, composition 1688

weed control 770

Oenothera erythrosepala, geographical dis-

tribution 1687

Oenothera paradoxa, seeds, composition

1688

Ogma serratum, *Hemerocallis* 5186**Oidium**

tomatoes 2305

Ziziphus mauritiana 5520**Oidium anacardii**, cashews 5466**Oidium fragariae**, strawberries 1211**Oidium mangiferae**, mangoes 1046, 9052**Oil palms**

books 2790

climate, Côte d'Ivoire 1837

cover crops, responses 3637

cropping systems, intercropping 1838

cultivars

fertilizers 9985

identification 10979

cultural methods, mechanization 4635

disease control, *Fusarium oxysporum*f.sp. *elaedis* 1839

fertilizers 9987

nitrogen 925, 9985

Oil palms cont.

fruits

abnormal development 2728

biochemistry 7344

disorders 2728

composition 2729, 6436

set, assessment 10982

in vitro culture, storage 2725, 4570, 6433

intercropping, cocoa 1838

leaves

biochemistry, disorders 2728

composition 2729, 9060

nutrients, requirements, analysis 7261,

7417

pest control

Oryctes rhinoceros 8154

rats 7342

Rhadinaphelencus cocophilus 6435*Rhynchophorus palmarum* 6435

photosynthesis, measurement 5500

plant growth regulators

cytokinins

composition 10981

in vitro culture 5501

physiology 5501

plant nutrition, nitrogen 925

plant residues

utilization

fertilizers 5821

reviews 3680

planting, site preparation 7341

planting stock, age 10980

pollination, pollinators, *Elaeidobius* 7343

processing

residues 3637, 5821

reviews 3680

production, Malaysia 9986, 10982

products

building materials 2730

carbon 10983

Malaysia, reviews 3680

oils 8155

paper 9989

regeneration, replanting 5498

replanting, cultural methods 10980

reports, India 10057

respiration, measurement 5500

roots

development, models 5499, 9988

in vitro culture 2725

seedlings, biochemistry 2727

seeds, development, biochemistry 926

soil amendments 2726

transpiration, assessment 9020

weed control 37, 6434

yields

correlation 2729, 9059

diseases 1839

forecasting 9059

Oil plants, production possibilities, India

7182

Oils

biochemistry

Elaeis melanococca 1764

grapes 10575

Mentha piperita 9831*Momordica charantia* 8587

olives 1764, 4553, 7241, 9913

pecans 4849

plants, books 9117

pomegranates 2663

Prunus laurocerasus 3552

sapodillas 9109

tomatoes 10575

composition

Annona coriacea 8110

apricots 9264

Cucumeropsis edulis 2713

Cucurbitaceae 10484

grapes 10575

Oenothera biennis 769

oil palms 6436

onions 4048

tomatoes 10575

Viola tricolor 10637

watermelons 2713

extraction, pecans 6636

metabolism

altitude, olives 9909

development, olives 10887

fertilizers, *Silybum marianum* 8042

Oils cont.

metabolism cont.

- maturity, avocados 3576
- ripening
 - Azadirachta indica* 10771
 - olives 9909
- salinity, olives 10887
- spacing, *Silybum marianum* 8042
- storage, olives 8104-8105
- production, cultural methods, *Coriandrum sativum* 10757
- quality
 - harvesting date, olives 5425
 - irrigation, olives 5425
- responses
 - apples 8301
 - Citrus hassaku* 844
 - grapes 4927
 - Nigella sativa* 9855
 - peaches 3875
 - pears 8301
 - sour oranges 8947

Oilseed cakes

- utilization
 - fertilizers
 - Pleurotus sajor-caju* 9637
 - satsumas 10840

Oilseed plants

- books 10030
- production, history 6530
- production possibilities, India 7182

Okras

- allelopathy 5069
- cold, tolerance 9432
- cropping systems
 - rotations 9549, 10521
 - sequential cropping 510
- cultivars
 - assessment
 - Egypt 463, 2266, 3227
 - India 6887, 9548, 9551
 - disease resistance 10519
 - pest resistance 463, 7765
- disease control
 - bhendi yellow vein mosaic
 - biginimivirus 3229
 - Erysiphe cichoracearum* 9552
- fertilizers
 - nitrogen 510, 1408, 2268, 3228, 9551, 10521
 - phosphorus 510, 3228
 - potassium 510, 3228
 - zinc 510
- fruits
 - development, diseases 5991
 - thinning, responses 9554
- harvesting, frequency 9553
- heat, responses 9432
- herbicides, tolerance 3071, 6889, 8500
- in vitro* culture, propagation, micropropagation 8620
- insecticides, responses 466
- irrigation, requirements, determination, reviews 10361
- leaves, composition 9433
- mulching, materials 9550
- pest control
 - Agrotis ipsilon* 7770
 - Amrasca biguttula* 5071
 - Amrasca biguttula biguttula* 6890-6891, 7768
 - Aphis gossypii* 4946
 - Bemisia tabaci* 3229
 - Earias* 7769
 - Earias vittella* 2271, 3230, 6892
 - Meloidogyne incognita* 5776, 7767
 - Meloidogyne javanica* 7766
 - Tetranychus cinnabarinus* 6891
- plant growth regulators, triacontanol, responses 466
- planting, spacing 6887-6888, 9554
- pollution
 - cadmium 2269
 - cement dust 465
 - radionuclides 2107
- reports, India 8193
- seedlings, emergence, pollution 465
- seeds
 - composition 1265
 - development, cultural methods 6893

Okras cont.

seeds cont.

- germination
 - biochemistry 6886
 - inhibitors 5069
 - seed treatment 464, 2267, 9416, 10520
- production, cultural methods 1408, 5071, 6894, 9553-9554
- sowing
 - sowing date 2272, 6895
 - spacing 2268, 3228
- treatment 5070
- soil amendments 9428
- soiless culture, systems, hydroponics 3073
- spacing 2272
- storage, treatment 6743
- weed control 2270, 9550
- yields, pests 6895, 7769, 9555

Olea (see also Olives)

- Oligonychus biharensis*, okras 9555
- Oligonychus coffeae*, tea 2759, 3690

Olives

- altitude, responses 9909
- climate, Tunisia 8095
- cover crops
 - cultural methods 8983
 - responses 8096
- cultivars
 - assessment
 - Cyprus 6355
 - India 2643
 - Iran 6359
 - Italy 2641, 2644, 6356
 - Spain 2642, 6357
 - Tunisia 7241
 - characteristics
 - Israel 2647
 - Italy 9905-9907
 - Jordan 2647
 - Spain 6357
 - World 2646
 - Yugoslavia 2645
 - composition 6356
 - disease resistance 859, 4546
 - flowering date 8103
 - identification 860, 8989
 - plant nutrition 863, 6358
 - salinity 4548
- cultural methods, mechanization 8981-8982
- cuttings
 - sources
 - assessment 2648
 - cultural methods 10881
 - treatment 861, 2648, 10881
- disease control
 - Spilocaea oleaginea* 4549
 - USA 9910
- disorders
 - chlorosis 2649
 - green staining 1761
 - drought, responses 4550
- economics, Italy 8094, 8982
- fertilizers
 - nitrogen 3625
 - phosphorus 3625
 - potassium 3625
- flowers
 - development
 - cultivars 8103
 - plant growth regulators 7249
 - temperature 5429
- frost, resistance, plant growth regulators 4551
- fruits
 - biochemistry 865
 - development 10887
 - handling 2653
 - salinity 10887
 - composition 863, 8988-8989
 - development
 - biochemistry 4552
 - irrigation 5425
 - physiology 7250
 - drop, physiology 864
 - injuries, cultural methods 5431
 - loosening, cultural methods 5431
 - quality
 - altitude 9909

Olives cont.

fruits cont.

- quality cont.
 - assessment 4553
 - irrigation 10882
 - maturity 9909
 - storage 7251
 - ripening, biochemistry 4552
 - set, fertilizers 3625
 - size
 - irrigation 862
 - plant growth regulators 862
- harvesting
 - equipment 6362, 8987
 - harvesting date, assessment 9913
 - techniques, mechanical harvesting 8981
- herbicides
 - injuries 7243-7244
 - responses 7245
- high density planting, rootstocks 6360
- in vitro* culture
 - propagation, micropropagation, reviews 9908
 - protoplasts 2652
- insecticides, residues 1762
- irrigation
 - frequency 3619
 - requirements, determination 8098
 - responses 3618, 5425, 10882
 - systems 3618, 6361
 - water, salinity 10887
- leaves
 - areas, assessment 5428
 - composition 2650, 8989, 9911
 - movement, drought 4550
 - physiology 7248
- nutrients
 - requirements, analysis 8100
 - uptake, irrigation 3619
- pest control
 - Bactrocera oleae* 866, 1762, 3622-3623, 8984-8985
 - books 987
 - Euphyllura olivina* 5427
 - Filippia oleae* 5427
 - Liothrips oleae* 5427
 - Metcalfa pruinosa* 4694
 - Otiorynchus cribricollis* 5427
 - Palpita unionalis* 5427
 - Phloeotribus scarabaeoides* 5426
 - USA 9910
 - Zeuzera pyrina* 1763
- pesticides, residues 866
- plant
 - composition 2651
 - development, cultural methods 8102
- plant growth regulators
 - abscisic acid, metabolism 3624
 - gibberellic acid, responses 7249
 - IBA, synergists 3617
 - paclobutrazol, responses 7249
- plant nutrition
 - iron 2649, 6358, 10883
 - manganese 10883
 - trace elements 3620
- plant residues, utilization, fodder 7564
- plant training, systems 3747
- plant water relations
 - plant growth regulators 4551
 - salinity 2650
- planting
 - spacing 2640
 - systems 8094
- planting stock
 - production
 - energy requirements 6498
 - labour requirements 6498
- pollen
 - composition 3620, 9912
 - ultrastructure 10886
- pollination
 - compatibility 5430
 - research 10885
- processing
 - cultivars 2653
 - quality
 - assessment 8105
 - cultivars 8104
 - maturity 9913
 - storage 5432, 8104

- Olives** *cont.*
 production
 Australia 2640
 Slovenia 8093
 products, oils 4553, 7251
 pruning, systems, mechanical methods
 1760, 7246-7247, 8981
 reproduction, biology 864
 roots, composition 2650
 rootstock scion relationships, growth
 6360
 salinity
 responses 2650, 3621
 tolerance 4548
 seeds
 composition 1764
 germination
 seed treatment 4547
 temperature 4547
 shoots
 biochemistry
 analysis 10884
 seasonal variation 10884
 cytology 8101
 soil management, systems 8096
 soil solarization 1033
 storage
 biochemistry 4554, 7251
 diseases 8105
 quality, cultivars 8104
 systems
 cold storage 8104-8105
 controlled atmosphere storage
 8105
 temperature 5432, 7251
 tillage, depth 8099
 translocation, source sink relations 8986
 transpiration, irrigation 6361
 weed control 1033, 7242-7244, 8097
 weeds, surveys, Spain 7242
- Oncidium**
 photosynthesis, biochemistry 6178
 stomata
 anatomy 6166
 frequency 6166
 taxonomy, nomenclature 7056
- Onions**
 allelopathy 8211
 bolting, cultivars 6759
 books 4656, 6474
 bulbs
 composition 2126-2127, 2139, 4048,
 6761
 development
 cultivars 4954
 photoperiod 5826
 temperature 5826
 flavour
 biochemistry 3099
 cultivars 4954
 histology 6757
 injuries, assessment 4049
 quality, fertilizers 7670
 size, cultivars 4954
 sprouting, plant growth regulators
 10394
 ultrastructure 7672
 chilling requirement 6759
 conferences 5542
 cropping systems
 intercropping 9440-9441
 rotations 6955
 cultivars
 assessment
 Brazil 7405, 7665
 Colombia 7642
 India 4034, 10375
 Italy 2128
 Nepal 9437
 New Zealand 4033
 Poland 10378
 Senegal 5815
 Sri Lanka 4037
 Taiwan 4035
 Venezuela 3088
 Zimbabwe 4036
 characteristics, India 9438
 composition 2126-2127, 4048
 disease resistance 10374
 drying 2126-2127
 pest resistance 2125
- Onions** *cont.*
 cultivars *cont.*
 salinity 1289
 storage 10376
 cultural methods, Nepal 5813
 cytology 3098, 10386
 disease control
 Alternaria porri 10383-10384
 Botrytis 8509
 Botrytis allii 4961
 Botrytis cinerea 339
 China 1290
 Europe 10366
 Fusarium oxysporum 4961
 Gibberella acuminata 4961
 Sclerotinia squamosa 8509-8510
 Sclerotium cepivorum 4044
 Stemphylium vesicarium 340, 10384
 disorders, chlorosis 6494
 drying, techniques 6760
 ecology 5812
 economics
 Canada 8492
 Chile 4675
 India 337
 USA 4675
 fertilizers 4959
 boron 4042, 7670
 copper 4042, 7670
 iron 7670
 manganese 7670
 nitrogen 1288, 3083, 3094, 4963,
 5075, 5822-5823, 7667-7669,
 7674, 8506-8508, 9443
 phosphorus 3083, 4963, 5075, 5822,
 7667, 8506, 8508, 9444
 potassium 3083, 5822, 7667, 8506
 sulfur 6755
 zinc 4042, 7670
 flowers, development, cultural methods
 10389
 frost, injuries 5825
 hail, injuries 315
 handling
 injuries 9448
 techniques, Vietnam 4702
 harvesting
 desiccants 4956-4957
 harvesting date, assessment 5828,
 6760
 herbicides
 injuries 3091
 responses 10388
 tolerance 338
in vitro culture
 protoplasts 5816
 techniques 6494
 insecticides
 injuries 2136
 responses 4045-4046
 intercropping, potatoes 9440-9441
 irrigation
 requirements, determination, reviews
 10361
 responses 4040, 9443
 water
 salinity 3092, 6752
 sources 2111, 5773
 manures 3083, 5821
 marketing, USA 4965
 mycorrhizas 4959, 6753, 9444, 10382
 pest control
 China 1290
 Delia antiqua 7671
 Ditylenchus dipsaci 1291
 Europe 10366
 Napomyza gymnotoma 3096
 Spodoptera exigua 10385
 Thrips tabaci 341, 3095, 3097, 4962,
 6756, 9445-9446
 plant
 biochemistry 2358
 composition 4958, 6522
 development
 carbon dioxide 9425
 cultural methods 321
 plant growth regulators 3093
 seed treatment 3089
 temperature 9425
 plant growth regulators, 2-KhÉFK,
 responses 8212
- Onions** *cont.*
 plant nutrition
 aluminium 4041
 cadmium 4043
 calcium 4041
 iron 6494, 6754
 nitrogen 2133-2134
 phosphorus 2133, 6753, 10382
 potassium 2133
 sulfur 2135, 4958
 plant water relations, physiology 5824
 planting
 depth 4038
 planting date 5818, 9437
 spacing 4039, 5817-5818, 7668,
 8508, 10379-10380
 systems 4039
 planting stock
 lifting 4955
 size 5818, 10379-10380
 storage 4955, 10389
 treatment 10390
 pollution
 cobalt 1285
 exhaust gases 4007
 heavy metals 4007
 industrial wastes 9439
 lead 2129
 magnesium 1285
 mercury 1285
 radionuclides 6730
 tannery waste 2137
 uranium 316
 production
 Argentina 4032
 Bangladesh 5798
 China 5810
 India 1283
 Iran 5805
 Myanmar 5808
 Papua New Guinea 4031
 Philippines 5803
 Portugal 5801
 Réunion 5802
 Spain 5801
 Sri Lanka 5806
 Taiwan 5797
 Tanzania 5804
 Thailand 5807
 USA 4934
 West Africa 5800
 Zimbabwe 5814
 production possibilities, Malaysia 5809
 reports
 Belgium 1888, 9127
 India 8193
 research
 Bangladesh 5799
 Nepal 5813
 Netherlands 8201
 Papua New Guinea 5811
 roots
 composition 6754
 cytology 2137-2138, 4041, 4043,
 4045-4046, 6758, 7673, 9447
 development
 plant growth regulators 10387
 storage 342
 exudates 10382
 physiology 5824
 toxicology 1285
 salinity
 responses 3092, 4960
 tolerance 1289
 seedlings
 production
 containers 10378
 cultural methods 337, 4959
 seeds
 anatomy 7666
 germination
 physiology 9417
 salinity 4960
 seed treatment 1284, 6749, 9416-
 9417, 9447
 tests 1260
 production
 cultivars 4037, 6759
 cultural methods 4963, 7674,
 10384, 10390-10391
 diseases 340

Onions cont.seeds *cont.*production *cont.*
tropics 5827

sowing

depth 4038
sowing date 3090
spacing 6750
treatment 1028, 1284, 10388
vigour, tests 10377

sets, storage 4956-4957

shoots, composition 6754

soil amendments 4959, 10381

soil solarization 1267

soil types 4958

soilless culture

growing media 3094

nutrient solutions, composition 3094

systems, nutrient film techniques
7669

storage

biochemistry 4964

humidity 342

losses 5828, 8507, 8511

quality

cultivars 10376, 10394
drying 6760
handling 9448
harvesting date 5828, 6760
plant growth regulators 10394

systems

assessment 5828-5829

cold storage 10393

controlled atmosphere storage
342, 4047

temperature 4047, 4964

treatment 2140, 10392

surveys

Netherlands 1891

USA 336, 8505

transpiration, determination 6739

water stress, responses 4040

weed competition 2130, 9442

weed control 338, 1267, 1286-1287,
2131-2132, 5819-5820, 6044, 6751,
10366*Operophtera brumata*, hazelnuts 1140*Ophiomyia phaseoli*, *Phaseolus vulgaris*
7747*Ophiopogon jaburan*, shade, responses 5160*Ophiopogon planiscapus*, shade, responses
5160*Ophrys*

conservation, Hungary 10710

ecology, Hungary 10710

Ophrys apifera, geographical distribution
696*Ophrys bombyliflora*, *in vitro* culture, propa-
gation, techniques 7055*Ophrys fuciflora*

conservation, Hungary 10710

ecology, Hungary 10710

Ophrys insectifera

conservation, Hungary 10710

ecology, Hungary 10710

Ophrys sphegodes

conservation, Hungary 10710

ecology, Hungary 10710

Oplismenus hirtellus, plant, development,
morphology 3457**Optical properties**, vegetables 9433*Opuntia*

cultivars, assessment, Mexico 10901

fruits, quality, cultivars 10901

pruning, responses 10902

reviews 10900

taxonomy, new taxa 10678

utilization

Central America 7256

North America 7256

wild plants

utilization

Australia 9920

South Africa 9920

Opuntia engelmannii

plant

development

models 7048

physiology 7048

reproduction, physiology 7048

Opuntia ficus-indica

buds, development, temperature 5444

cultural methods, South Africa 2664

flowers

development

assessment 9922

cultural methods 6367

initiation, cultural methods 5447

frost, injuries 5447

fruits, development, assessment 9922

photosynthesis

carbon dioxide 8108

measurement 1912

salinity 7258

plant

biochemistry

carbon dioxide 7257

diurnal variation 5445

plant nutrition, nitrogen 4564

production, Ethiopia 7255

production possibilities

Argentina 8996

Germany 9626

pruning, systems, root pruning 5447

roots

development, anatomy 5443

physiology 5446

salinity, responses 7258

seeds, treatment 9921

storage

disease control 10903

systems, controlled atmosphere stor-
age 7562

water stress, responses 5446

wild plants, utilization, Cape Verde 9731

Opuntia microdasys

growing media, composition 684

irrigation, frequency 685

pot plants, production, cultural methods
684-685**Oranges**

acaricides, injuries 2599

altitude, responses 10837

as rootstocks

Citrus 3591

lemons 8941

pummelos 10859

as shade plants, tea 9135

budding, rootstocks, treatment 5365

buds

dormancy

cultural methods 8055

rootstock scion relationships 8055

climate, Mexico 9871

cropping systems, agroforestry 9135

cultivars

assessment

China 4494, 8940

Japan 8940

New Caledonia 4493

USA 8940

characteristics

Australia 6310-6312

China 10822

South Africa 6310-6312

disease resistance 4492

identification 8939

cuttings

rooting

growing media 8054

mycorrhizas 8054

disease control

Colletotrichum acutatum 10845*Glomerella cingulata* 1742*Penicillium digitatum* 1742-1743,
6332*Penicillium italicum* 1742-1743, 6332*Phytophthora citrophthora* 3488*Phytophthora nicotianae* var. *parasit-*
ica 3488

disorders

blight 6331, 8949, 9888-9889

chilling injury 7220

chlorosis 6313, 10844

creasing 828

scald 9876

dwarfing, viroids 6314

fertilizers

calcium 1739, 4525

iron 2594

manganese 2594

Oranges cont.fertilizers *cont.*nitrogen 4503, 5378, 5380, 8062-
8063

zinc 2594, 4508

flowers

development, plant growth regulators
7211initiation, plant growth regulators
9893

frost, protection, equipment 822

fruits

biochemistry 5389, 7216

altitude 10837

colour

biochemistry 838

plant growth regulators 10858

composition 2626, 3607, 4512, 5409

cracking

anatomy 4525

cultural methods 1739

degreening

cultivars 842

insecticides 5395

plant growth regulators 842

development, plant growth regulators
7211

drop, climate 10856

maturity, spacing 821

mechanical properties, assessment
6344

quality

irrigation 7202

plant growth regulators 2621,
10858, 10866

plant nutrition 10843

rootstock scion relationships 3584

spacing 821

storage 8968

ripening

biochemistry 3606, 5396

physiology 4707

set

biochemistry 8074

cultivars 8074

cultural methods 7214

physiology 7214

size, cultural methods 5379

fungicides

application date 6332

responses 8948

grafting

techniques, micropropagation 3583

unions, development 2591

handling, techniques, Vietnam 4702

harvesting, harvesting date, assessment
5403

herbicides, responses 1722, 6325

in vitro culture

biochemistry 4515

cell suspensions 4515

plant embryos 9880

propagation, micropropagation 3583,
7198

responses, salinity 834

somatic embryogenesis 6316

insecticides

determination 5388

residues 2612, 5387-5388, 8956

responses 5395, 5408

interstocks 9879

irrigation

requirements, determination 9885

systems 7202

water

salinity 8063

sources 1723, 4499

leaves

biochemistry, salinity 1724

colour, measurement 6320

composition 4512, 10844

manures 8054

mycorrhizas 877, 8061

nematicides, responses 8948

nutrients

requirements, analysis 3585

uptake, assessment 3607

packing

containers 8084

materials 8084

Oranges cont.

- pest control
 - Aonidiella aurantii* 2606
 - Aonidiella citrina* 1734
 - Bactrocera minax* 8954
 - Bactrocera tryoni* 1742
 - Ceroplastes rusci* 1728
 - Formicidae 1731
 - Panonychus citri* 1728, 2611
 - Phyllocnistis citrella* 2601, 10849
 - Phyllocoptruta oleivora* 2599-2600
 - Scirtothrips citri* 8951
 - Selenaspis articulatus* 2602
 - Tylenchulus semipenetrans* 4510
- pesticides, residues 7421
- photosynthesis
 - biochemistry 6609
 - salinity 8063
- plant
 - biochemistry 834, 8074
 - development, protected cultivation 10838
- plant growth regulators, abscisic acid, metabolism 838
- plant nutrition
 - boron 1723
 - calcium 10843
 - chlorine 1723
 - iron 6313
 - magnesium 5383, 6329
 - nitrogen 1723
 - phosphorus 6329
 - potassium 1723, 3586
 - rubidium 5382
 - sodium 1723
 - strontium 5382
 - zinc 4508, 5383
- plant residues, utilization, soil amend-ments 2160
- planting, spacing 821
- planting stock, production, cultural meth-ods 4496
- pollen, viability, cultivars 7213
- pollination, compatibility 5392
- protected cultivation, systems, green-houses 10838
- regeneration
 - replanting 5374
 - topworking 9883
- respiration, physiology 4707
- roots, composition 10844
- rootstock scion relationships
 - disorders 828, 9876
 - growth 1715, 2590-2591, 3584, 4496-4497, 4503, 6314, 10829
 - plant nutrition 6313, 7196
 - quality 10830
 - yields 1715, 2590, 3584, 4497, 4503, 10830
- rootstocks
 - pest resistance 2589
 - propagation, mycorrhizas 1717
- salinity, responses 1724
- seeds
 - development
 - pollination 5392
 - polyembryony 2620
 - soil amendments 8948
 - soil pH, responses 8949
 - soil types 4502
 - soil water, responses 6329
 - somatic embryos, development, biochem-istry 7218
- sorting
 - computer vision 2625
 - techniques 8966
- storage
 - biochemistry 4531
 - disease control 1742-1743, 7227
 - diseases 8970
 - disorders 7220
 - packing 5403
 - pest control 1742
 - quality, plant nutrition 10843
 - treatment 1742, 4531, 5402-5403, 6524, 8968
- surveys, Mexico 9871
- taxonomy
 - cytology 3582
 - morphology 3582
- tillage, depth 4500

Oranges cont.

- topworking 10839
- vascular system 6331
- yields, diseases 8078
- Orbignya cohune***
 - history, Mexico 9947
 - leaves, composition 1857
- Orbignya phalerata***
 - handling, equipment 773
 - harvesting, equipment 773
 - leaves, composition 1857
- Orbignya speciosa***, leaves, composition 1857
- Orchidaceae**
 - books 9, 3702, 5535
 - cultural methods
 - books 2786
 - Mexico 5250
 - cut flowers
 - economics
 - Europe 10695
 - North America 10695
 - production possibilities, Mauritius 10605
 - diseases, surveys, Korea Republic 695
 - economics, India 9755
 - flowers, development, phenology 7926
 - geographical distribution 10694
 - growing media, composition 9751
 - in vitro* culture
 - culture media 7930
 - embryos 7930
 - mycorrhizas 694, 6167, 8833, 10696
 - new journals 5528
 - pests, surveys, Australia 1607
 - plant, morphology 4370, 5252
 - pollen, development, anatomy 10693
 - pollination, books 1862
 - production possibilities, India 7929
 - seedlings, quality, determination 8832
 - seeds
 - germination, mycorrhizas 6167
 - morphology 3458
 - stomata
 - anatomy 6166
 - frequency 6166
 - surveys
 - Brazil 5253
 - Italy 9754
 - Russia 3459
 - taxonomy
 - anatomy 7054
 - keys 2437
 - morphology 3458, 4370
 - wild plants
 - conservation
 - India 7928
 - Japan 9752
 - Russia 5251
 - surveys, Africa 2438
- Orchepedum plantaginifolium***, geographical distribution 2447
- Orchis latifolia*** (see *Dactylorhiza majalis*)
- Orchis morio***
 - mycorrhizas 2436, 2449
 - plant nutrition, nitrogen 2449
- Organic acids**
 - biochemistry
 - Catharanthus roseus* 8912
 - Mesembryanthemum crystallinum* 8827
 - biosynthesis, cucumbers 5028
 - characterization, coffee 6407
 - composition
 - chicory 2156
 - cocoa 894
 - coffee 10930
 - fruit crops 3738
 - grapes 4931
 - onions 4048
 - Rubus* 1196
 - Rubus arcticus* 5707
 - satsumas 7230
 - strawberries 4883
 - tea 7368
 - tomatoes 1465, 5124
 - wild plants 4004
 - determination
 - apples 1981
 - apricots 2929
 - strawberries 3950
 - tropical fruits 878

Organic acids cont.

- determination cont.
 - Vaccinium angustifolium* 3924
- diurnal variation, *Opuntia ficus-indica* 5445
- metabolism
 - altitude
 - mandarins 10837
 - oranges 10837
 - carbon dioxide, *Opuntia ficus-indica* 7257
- cultivars
 - figs 8345
 - onions 2135
 - spinach 8517
 - tomatoes 504
 - Vaccinium angustifolium* 3924
- cultural methods, spinach 8517
- development
 - melons 5490
 - nectarines 180
 - peaches 180
 - plums 9326
 - Prunus pseudocerasus* 164
- diurnal variation, *Mesembryanthemum crystallinum* 3453
- fertilizers
 - grapes 10331
 - spinach 6763, 8518
 - spinach beets 6773
 - tomatoes 6927, 8655
- harvesting date, peaches 182
- in vitro* culture, tomatoes 3302
- maturity, *Vaccinium angustifolium* 3924
- photoperiod, pineapples 935
- physiology, peas 5978
- plant growth regulators, *Citrus* 5389
- plant nutrition
 - cucumbers 2205
 - grapes 6719
- ripening
 - figs 8345
 - melons 5490
 - oranges 5396
 - passion fruits 8990
 - plums 9326
 - tomatoes 537, 7826
- rootstock scion relationships
 - grapes 3032, 7604
 - mandarins 10831
 - peaches 3844
 - tomatoes 8655
- salinity
 - Mesembryanthemum crystallinum* 3453
 - tomatoes 10550
- seasonal variation, tomatoes 8655
- shade, tomatoes 537
- soiless culture
 - Brassica campestris* 3110
 - spinach 3110
- storage
 - apples 9215
 - hazelnuts 10201
 - peaches 182
 - tomatoes 3269, 9614
- sulfur, onions 2135
- temperature
 - peas 10505
 - spinach 3107
- water stress
 - Portulaca grandiflora* 7923
 - tomatoes 3310
- responses
 - chrysanthemums 5172
 - kiwifruits 5698
 - mandarins 3609
 - Opuntia ficus-indica* 5447
 - Phaseolus vulgaris* 8673
 - tomatoes 1472, 8673
 - Tropaeolum majus* 623
 - tropical crops 4678
- Organic culture**
 - apples 4774, 5593
 - broccoli 1326
 - cabbages 4095
 - carrots 3313
 - Citrus* 5373
 - coffee 9027
 - culinary herbs, books 2787

Organic culture cont.

- grapes 5742, 5755
- horticultural crops 1036
- leeks 4095
- onions 1287
- Phaseolus vulgaris* 6011
- spice plants 6242
- strawberries 5721
- swedes 3313
- temperate fruits 4714, 4721
- tomatoes 4210, 4253, 6011, 6914, 8661
- vegetables 2115

Organic sulfur compounds

- biochemistry
 - garlic 2358
 - Lentinula edodes* 2358
 - onions 2358
- biosynthesis
 - lettuces 3132
 - peas 3132
- composition
 - garlic 4027
 - onions 3099
 - Tuber magnatum* 10603
- metabolism
 - cultivars
 - Hevea* 937
 - onions 2135
 - harvesting, *Hevea* 937
 - sulfur, onions 2135
- responses
 - apples 6548
 - Gladiolus tubergenii* 1564
 - Hedera helix* 6548

Origanum, manures 3520**Origanum dictamnus**, seeds, germination, physiology 9827**Origanum majorana**

- leaves, biochemistry, age 3526
- photoperiodism 3526
- weed control 7145

Origanum vulgare

- ecology, Greece 1670
- harvesting, harvesting date, assessment 2561
- herbicides, injuries 9833
- in vitro* culture, disorders, vitrification 5316
- nutrients, uptake, humates 751
- plant, development, phenology 2561
- seeds
 - germination
 - inhibitors 1670
 - light 1670
 - temperature 1670
- soilless culture
 - nutrient solutions
 - composition 751
 - pH 751
- taxonomy, chemotaxonomy 5317
- weed control 9833

Orius

- control
 - of *Frankliniella occidentalis*, *Capsicum* 4192
 - of *Thrips tabaci*, leeks 7664

Orius insidiosus, control, of *Frankliniella occidentalis*, cucumbers 2208**Orius laevigatus**

- control
 - of *Frankliniella occidentalis*, *Gerbera* 7867
 - of *Thrips tabaci*, *Gerbera* 7867

Orius majusculus

- control
 - of *Frankliniella occidentalis* cucumbers 2208
 - Gerbera* 8754

Orius niger

- control
 - of *Frankliniella occidentalis*, *Gerbera* 7867
 - of *Thrips tabaci*, *Gerbera* 7867

Ornamental bromeliads, cut flowers, production possibilities, Mauritius 10605**Ornamental bulbs**

- books 10038
- bulbs, storage, systems 626
- cropping systems, agroforestry 9644
- production
 - models 8783

Ornamental bulbs cont.

- production cont.
 - Netherlands 625
- reports, Netherlands 8195
- tubers, conferences 6478

Ornamental conifers

- pest control
 - Phloeosinus aubei* 716
 - Phloeosinus thujae* 716
- planting stock, production, containers 7950

Ornamental ferns

- in vitro* culture, metabolites, production 54

- shade, responses 5160

Ornamental foliage plants

- pot plants, production, cultural methods 5219
- protected cultivation, systems, green-houses 4275

Ornamental herbaceous plants

- cut flowers, production, cultural methods 9653
- planting stock, production, cultural methods, books 2792
- pollution, cadmium 8739

Ornamental orchids (see *Orchidaceae*)**Ornamental palms**, propagation, techniques 2430**Ornamental plants**

- books 4659, 10032
 - Australia 8182
 - China 999
- conferences 1006, 1008-1009, 2800, 4668, 6477
- cropping systems, agroforestry 584
- cultural methods
 - books 8178
 - containers, books 3
 - hanging baskets, books 3
 - labour requirements 6989
 - mechanization 5559, 6989
- cut flowers
 - pest control 591
 - plant water relations 9790
 - preservatives 8742
 - production, cultural methods 1513
 - quality, assessment 9649
 - vase life 591, 8741, 9651
- cut foliage
 - pest control 591
 - vase life 591, 8741
- dictionaries, languages 1863
- disease control 4278
 - Cristulariella moricola* 9648
 - Italy 585
 - reviews 7423
 - viruses 1524
- diseases, viruses, books 8179
- dried flowers, production 9643
- economics
 - Belgium 8738
 - UK 1258, 9641
- establishment
 - car parks 5153
 - roadsides 5153
- ethnobotany 5327
- fertilizers 8592
 - reviews 7423
- flowers, development, plant growth regulators, reviews 4279
- frost
 - injuries 4274
 - tolerance 6082
- growing media
 - composition 9646
 - contaminants 3375
- handling, techniques, Mexico 5161
- history, Mauritius 6492
- irrigation
 - systems 9645
 - water, sources 9645
- landscaping
 - Japan 5163
 - Netherlands 1515
 - parks 1515
 - selection 1516
 - urban sites 1515
- manures 1520
- marketing
 - Israel 1511

Ornamental plants cont.**marketing cont.**

- Poland 1055
- mycorrhizas, reviews 1523
- new journals, India 1
- nurseries, cultural methods 1520, 5157, 5559, 9645
- pest control 4278
 - books 1868
 - Coccoidea 1526
 - Diptera 588, 590
 - Germany 6083
 - Hemiptera 3080
 - Liriomyza huidobrensis* 3378
 - Liriomyza trifolii* 2830
 - Nematoda 587
 - Otiiorhynchus* 589-590
 - reviews 7423
 - UK 3377
 - USA 1525
- photosynthesis, physiology 5267
- plant growth regulators
 - flurprimidol, responses 8740
 - reviews 7858
 - triazoles, reviews 2373
- plant nutrition, copper 2374
- pot plants
 - production, cultural methods 1513
 - storage 10607
- production
 - Argentina 1514
 - India 6491
 - Israel 1511
 - Italy 1512
 - USA 584, 5157
- production possibilities, Argentina 7403
- propagation
 - equipment 1518
 - New Zealand, books 993
 - techniques 5159
- protected cultivation
 - pest control 1525, 4277, 6083-6084, 6515
 - systems, greenhouses 4275
- reports, Australia 8189
- research
 - Israel 1511
 - Italy 1512
 - Taiwan 8203
- respiration, physiology 5267
- seedlings, development, morphology 5163
- seeds, production, Croatia 2837
- selection
 - landscaping 1516
 - rock gardens 10677
- shoots, development, assessment 5159
- species
 - identification, books 3699
 - pot plants 9639
- surveys, India 5154
- taxonomy, nomenclature, books 3699
- weed control 1522
 - conferences 18
- wild plants, surveys 5154
- winter hardiness, assessment 6082

Ornamental succulent plants (see *Succulent plants*)**Ornamental woody plants**

- books 10040
- breeding, selection 4386
- conferences 8185
- conservation
 - Hong Kong 2459
 - UK 2457
- cropping systems, agroforestry 9644
- cultivars, winter hardiness 3468
- cultural methods
 - roadsides 6183
 - urban sites 4384
- cuttings
 - rooting
 - growing media 1617
 - temperature 1616
 - sources, cultural methods 1616, 9770
 - treatment 1616
- disease control, Canada 7074
- frost, resistance, assessment 3469
- grafting, scions, assessment 5259
- growing media, characteristics 2464-2465
- herbicides, injuries 2471, 7071, 8845

Ornamental woody plants *cont.*

- insecticides, tolerance 1618
- irrigation, responses 4389
- landscaping
 - China 3465
 - historic buildings 2460
 - Hong Kong 9767
 - parks 2457
 - reclaimed land 1615
 - refuse tips 1615
 - roadsides 2462, 7070
 - urban sites 4385, 6182, 8842, 9767
 - books 5531
 - USA 707, 2455
- leaves, morphology 10715
- manures 9722
- manures, cultural methods 2468, 7946
- pest control 7948
 - Lymantria dispar* 3471
 - Pratylenchus penetrans* 8847
 - Quadrastipidius perniciosus* 1618
 - USA 2473
- photosynthesis
 - light 709
 - photoinhibition 708
- plant
 - development, physiology, reviews 3472
 - size, assessment 6184
 - plant water relations, assessment 2475
 - planting, spacing 6236
 - planting stock
 - production
 - containers 2467
 - cultural methods 3466, 6185
 - books 5
- pollution
 - ammonia 8843
 - cadmium 8739
 - nitrogen oxides 10065
 - sulfur dioxide 10065
- pruning
 - books 996
 - systems, root pruning 2820, 6186
- regeneration
 - pruning 2820
 - replanting 2457
- reports, Finland 6485
- roots
 - development
 - containers 2466
 - cultural methods 2467
 - salinity, injuries 2469
 - shade, measurement 2470
 - species, winter hardiness 3468
 - surveys, Germany 2458
 - weed control 2471, 7071, 7948, 8845
 - winter hardiness
 - cultivars 3468
 - species 3468
- Ornithocephalus torresii*, taxonomy, new taxa 10711
- Ornithogalum*, taxonomy, keys 8784
- Ornithogalum arabicum*, flowers, development, temperature 3439
- Ornithopus sativus*, as weeds, *Asparagus* 7763
- Orobanche aegyptiaca*
 - as weeds
 - cabbages 8549
 - spinach 3120
 - tomatoes 6013
- Orobis* (see *Lathyrus*)
- Ortaniques* (see also *Tangors*)
 - fruits
 - quality
 - cultural methods 5404
 - handling 5404
 - storage 5404
 - plant, biochemistry 8074
- Orthaga exvinacea*, cashews 1788
- Orthellia*, pollinators, apples 2910
- Oryctes rhinoceros*
 - coconuts 7291, 10921
 - oil palms 8154
- Osmanthus fragrans*, flowers, fragrance, biochemistry 10756
- Osmunda japonica*, nutritive value 1497
- Ostrinia nubilalis*, *Capsicum* 1417, 3242
- Otiophynchus*
 - ornamental plants 589-590
- Otiophynchus* *cont.*
 - Rhododendron* 590
- Otiophynchus cribricollis*, olives 5427
- Otiophynchus ligustici*, hops 3535
- Otiophynchus ovatus*, strawberries 5733
- Otiophynchus sulcatus*
 - Chinese cabbages 4105
 - Rhododendron* 3490
 - strawberries 7588
- Oudemansiella canarii*, *in vitro* culture, metabolites, production 3332
- Ovatus malisuctus*, apples 2891
- Oxalates**
 - composition
 - Chamaecereus silvestrii* 9737
 - vegetables 7653
 - metabolism, soilless culture, spinach 4055
- Oxalis versicolor*, characteristics 662
- Oxycoccus* (see *Vaccinium*)
- Oxygen**
 - isotopes
 - bananas 4511
 - grapefruits 4511
 - grapes 4001-4002
 - mandarins 4511
 - metabolism, storage, broccoli 4118
 - physiology, apples 8312
 - responses
 - apples 9217
 - avocados 816
 - Lantana camara* 10737
 - melons 5483, 6410
 - mushrooms 4269
 - onions 1284
 - spinach 9455
 - toxicity, fruit crops 2815
- Ozone**
 - deposition
 - grapes 1230
 - peaches 1999
 - responses
 - blackberries 4876
 - cucumbers 9505
 - Cucurbita pepo* 9504
 - spinach 2144
 - Vicia faba* 2144
 - toxicity
 - fruit crops 2815
 - horticultural crops 5561
 - peas 438
 - Phaseolus vulgaris* 421, 1377-1379, 3196, 5043, 5933, 7744, 9520-9521
 - radishes 8558
 - Sedum album* 7924
 - tomatoes 7795, 9578
 - watermelons 9962
- Pachnaeus litus*, *Citrus* 1727
- Pachybrachius bilobatus*, strawberries 1213
- Pachycereus pecten-aboriginum*
 - seeds, germination, physiology 8829
 - water stress, responses 8829
- Pachycereus pringlei*
 - seeds, germination 8830
 - shoots, abnormal development 9744
- Pachycondyla villosa*, control, of *Clastoptera globosa*, cocoa 9019
- Packing**
 - containers
 - bananas 9013
 - cherries 166
 - grapes 8489
 - oranges 8084
 - materials
 - Asparagus* 10516
 - lettuces 10420
 - oranges 5403, 8084
 - peaches 5669
 - strawberries 3949
 - tomatoes 1477
 - Vaccinium corymbosum* 10286
 - Ziziphus mauritiana* 967
 - techniques
 - cherries 7521
 - horticultural crops, conferences 9124
 - sapodillas 6449
 - tomatoes 5127
- Paecilomyces anaticum*, control, of *Radopholus similis*, bananas 6379
- Paecilomyces cladodes*, control, of *Radopholus similis*, bananas 6379
- Paecilomyces fumosoroseus*, control, of *Trialeurodes vaporariorum*, tomatoes 7814
- Paecilomyces lilacinus*
 - control
 - of *Meloidogyne incognita*
 - aubergines 5083
 - tomatoes 5083
 - vegetables 5776
 - of *Radopholus similis*, bananas 6379
- Paenonia**
 - books 6476
 - cut flowers, vase life 3419
 - economics, Korea Republic 4463
- Paenonia anomala*, *in vitro* culture, somatic embryogenesis 4313
- Paenonia lactiflora*
 - harvesting, harvesting date, assessment 2562
 - roots, development, biochemistry 2562
- Paenonia suffruticosa*, seeds, germination, seed treatment 7117-7118
- Pagiocerus frontalis*, avocados 10818
- Palmae** (see *Arecaceae*)
- Palmaria palmata*, products, proteins 1695
- Palmorchis*, taxonomy, nomenclature 7056
- Palpita unionalis*, olives 5427
- Panax pseudoginseng*
 - climate, Thailand 4464
 - fertilizers, phosphorus 7171
 - harvesting, harvesting date, assessment 6286
 - in vitro* culture, plant embryos 10793
 - leaves
 - development
 - age 7170
 - light 7170
 - plant, biochemistry, light 1689
 - plant nutrition
 - nitrogen 7172
 - phosphorus 6287, 7172
 - potassium 7172
 - production possibilities
 - New Zealand 8037
 - Thailand 4464
 - roots
 - biochemistry
 - age 3549
 - fertilizers 7171
 - provenance 3549
 - soil 6287
 - quality, age 6286
 - seeds, germination, seed treatment 4465
- Panax quinquefolius*
 - in vitro* culture, somatic embryogenesis 758
 - plant, morphology 1690
 - production possibilities, New Zealand 8037
 - seeds
 - germination, seed treatment 10794
 - treatment 10794
- Pancratium maritimum*
 - plant, morphology 771
 - plant nutrition
 - nitrogen 771
 - phosphorus 771
 - potassium 771
- Pandemis heparana*
 - apples 2905, 3784
 - pears 2905
- Pandemis pyrusana*, apples 9197
- Pandorea*, cultivars, characteristics, Australia 9642
- Panicum colonum* (see *Echinochloa colonum*)
- Panicum dichotomiflorum*
 - as weeds
 - melons 9041
 - watermelons 9041
- Panicum maximum*, as weeds, *Citrus* 6324
- Panicum repens*, as weeds, tea 7356
- Panonychus*, fruit crops 7484
- Panonychus citri*
 - Citrus* 1727, 2598, 6333, 7206
 - mandarins 2611
 - oranges 1728, 2611

Panonychus ulmi

- apples 115-116, 1090, 1096, 2891, 2895, 3785, 4776, 5613, 7480, 7486, 9192-9193
- cherries 1993
- Citrus* 10848
- fruit crops 3752, 7479
- grapes 1922, 6533, 9412
- peaches 3869
- pears 4776
- plums 1993, 2846, 3903
- temperate fruits 1922, 2846, 6533

Papaver alpinum, plant, composition 10632**Papaver bracteatum**, plant, composition 7880**Papaver dubium**, plant, composition 10632**Papaver nudicaule**, plant, composition 7880, 10632**Papaver orientale**, plant, composition 7880, 10632**Papaver ramosissimum**, taxonomy, revisions 9690**Papaver rhoeas**

- flowers, fragrance, determination 10606
- plant, composition 7880, 10632
- pollen
 - composition 10606
 - germination, *in vitro* culture 2396
- pollination, compatibility 1554
- taxonomy, revisions 9690

Papaver somniferum

- cultivars
 - assessment, India 7173, 10797
 - disease resistance 7174-7175
- disease control, *Peronospora arborescens* 10796
- fertilizers, nitrogen 5343
- fungicides, residues 1691
- plant, composition 7880, 10632
- pollution, heavy metals 3550, 9815
- roots, cytology 10795
- seeds
 - cytology 10795
 - sowing, sowing date 7173
 - treatment 10796

Papaveraceae, taxonomy, chemotaxonomy 2536**Papaya ringspot potyvirus**

- Lagenaria siceraria* 5890
- melons 3668
- pawpaws 8157

Paper

- utilization
 - casing
 - Ganoderma lucidum* 3358
 - mushrooms 2339, 3336
 - growing media
 - horticultural crops 2814
 - ornamental woody plants 6219
 - Pleuratus sajor-caju* 580
 - mulches
 - cabbages 377
 - Capsicum* 5484
 - lettuces 4073
 - raspberries 2046
 - tomatoes 8662
 - watermelons 5484
 - packing
 - lemons 8082
 - oranges 8084
 - peaches 4839
 - storage, apricots 10183
 - weed control, ornamental plants 2372

Paphiopedilum, taxonomy, nomenclature 998**Paphiopedilum villosum**, pollination, biology 8841**Paphiopedilum wellesleyanum**

- stomata
 - anatomy 6166
 - frequency 6166

Papua New Guinea

- Brassica*, pest control 4102
- cocoa, surveys 9022
- onions
 - production 4031
 - research 5811
- pineapples, production 4636
- shallots, production 5811
- tomatoes
 - cultivars 4202

Papua New Guinea cont.

- tomatoes *cont.*
 - production possibilities 4202
- vegetables
 - production 312
 - surveys 312
- Welsh onions, production 5811
- Parabemisia myricae*, *Citrus* 1732
- Parajubaea torallyi*, ethnobotany, Bolivia 2574
- Paranthrene regalis*, grapes 2089
- Parapediasia teterrella*, lawns and turf 4352
- Paraphalaenopsis*, taxonomy, nomenclature 998
- Paraphalaenopsis denevei*, cultural methods, USA 1613
- Paraphalaenopsis labukensis*, cultural methods, USA 1613
- Paraphalaenopsis laycockii*, cultural methods, USA 1613
- Paraphalaenopsis serpentina*, cultural methods, USA 1613
- Parkia biglobosa*, cuttings, treatment 5526
- Parlatoria pergandii*, *Citrus* 2610
- Parochetus*, ornamental value 1509
- Parochetus africanus*, cultural methods, UK 618
- Parochetus communis*, cultural methods, UK 618
- Parsley** (*see Petroselinum crispum*)
- Parsnips**, allelopathy 8211
- Parthenium argentatum**
 - cultivars, assessment, USA 7188
 - plant
 - biochemistry 2575, 5353
 - plant growth regulators 780
 - composition 10814
 - histology 7187
 - production possibilities, Argentina 7403
- Parthenocissus**
 - cultivars, identification 1220
 - species, identification 1220
- Parthenocissus quinquefolia**
 - cultivars, characteristics, USA 9768
 - leaves, physiology 10070
 - photosynthesis, light 709
- Parthenocissus corni**, grapes 285
- Paspalum notatum**
 - as cover crops
 - peaches 9287
 - temperate fruits 5585
 - inflorescences, development, plant growth regulators 9721
- Paspalum paniculatum**
 - as weeds
 - Citrus* 9884
 - mangoes 9884
- Passiflora** (*see also* Passion fruits)
- Passiflora alata**, leaves, anatomy 7377
- Passiflora incarnata**, wild plants, utilization 7154
- Passiflora quadrifaria**, taxonomy, new taxa 7977
- Passion fruits**
 - disease control, *Rhizoctonia solani* 3626
 - fertilizers, nitrogen 8106
 - flowers, development, assessment 5433
 - fruits
 - aroma, biochemistry 6363
 - development, assessment 5433
 - flavour, biochemistry 3627
 - ripening, physiology 4556, 8990
 - set, fertilizers 8106
 - harvesting, harvesting date, assessment 4556
 - in vitro* culture, propagation, micropropagation 4555
 - leaves
 - biochemistry 867
 - age 10890
 - light 7253
 - photosynthesis, water stress 7252
 - plant
 - development, phyllotaxy 10889
 - habit, development 10889
 - processing, residues 5522
 - production, Brazil 6488
 - production possibilities, Argentina 5357
 - roots, morphology 10888
 - soil types 9914
 - water stress, responses 7252

Pasteuria penetrans, control, of Nematoda, tomatoes 524**Pastinaca** (*see also* Parsnips)**Patchouli** (*see Pogostemon cablin*)**Pawpaws**

- cropping systems, agroforestry 876, 1840
- cultivars
 - disease resistance 929
 - pest resistance 929, 3681
- cultural methods, Brazil 8156
- disease control, papaya ringspot potyvirus 8157
- disorders
 - dieback 9063
 - skin freckles 9992
- fertilizers
 - boron 1841
 - copper 1841
 - manganese 1841
 - nitrogen 7345
 - phosphorus 7345
 - potassium 7345
- flowers
 - sex
 - plant growth regulators 2732
 - plant nutrition 1841

fruits

- colour, ripening 9993
- composition 878, 6371, 9993
- development, assessment 1842
- quality
 - assessment 7439
 - fertilizers 7345
 - seed treatment 927
- ripening
 - biochemistry 931, 2733
 - gamma radiation 9064
- in vitro* culture
 - culture media 928
 - organogenesis 10985
 - propagation, micropropagation 2731
- intercropping, mangoes 7324
- leaves, biochemistry 8158
- manures 10987
- mycorrhizas 877, 9062, 9991
- nutritive value 1916
- pest control
 - Bactrocera cucurbitae* 932
 - Bactrocera dorsalis* 932
 - Ceratitidis capitata* 932

pests, surveys, Côte d'Ivoire 4571

- plant
 - histology 9063
 - morphology 930
- plant nutrition
 - calcium 9063
 - phosphorus 9062, 9991
 - zinc 9991

planting

- site preparation 5503-5504
- spacing 5502, 10986
- processing, residues 5522
- production, Brazil 6488
- production possibilities
 - Mexico 10984
 - South Africa 2578

seeds

- artificial seeds 930
- treatment 927
- soil amendments 5503-5504
- stomata, movement, light 6437
- storage
 - pest control 932
 - temperature 9994
 - treatment 932, 6524, 9064
- surveys, Madagascar 4676
- taxonomy, chemotaxonomy 9990
- water stress, responses 6437

Peaches

- as rootstocks
 - almonds 10090
 - apricots 1176, 10175-10176
- bark, biochemistry, seasonal variation 6521
- buds
 - development, assessment 3874
 - dormancy, physiology 4835, 10216
- chilling requirement 10215
- conferences 3710, 7395
- cover crops, responses 9287, 9289

Peaches cont.

- cultivars
 - anatomy 5587
 - assessment
 - Argentina 5649
 - Brazil 7405
 - Bulgaria 9278-9279
 - China 1145
 - Egypt 3831
 - Poland 4823
 - Turkey 2945
- books 4
- characteristics
 - Australia 3836
 - books 989
 - Bulgaria 9281
 - China 4825, 9283-9284, 10208
 - France 3832, 4826, 8346, 9282
 - Italy 1996, 2946, 3834, 9280, 10205-10206
 - Japan 10208
 - South Africa 6612
 - USA 1143-1144, 2946, 3832, 4826, 8346, 10205-10206
- composition 10223
- cytology 6630
- disease resistance 174, 5650
- pest resistance 1892, 3830
- cultural methods
 - books 4
 - containers 8347
 - Switzerland 4711
- cuttings
 - grafting 4827
 - rooting
 - biochemistry 3838
 - growing media 4828
 - physiology 3837
 - treatment 3839, 4828
- disease control 5661
 - bacteria 3750
 - Botryodiplodia theobromae* 157
 - Botryosphaeria dothidea* 157
 - Botrytis cinerea* 9294
 - Brazil 2960
 - Cytospora* 7447
 - Glomerella cingulata* 10218
 - Italy 3864, 9163, 9295
 - Monilinia fructicola* 2965, 3884, 10218
 - Monilinia fructigena* 9294
 - Monilinia laxa* 5662, 7447, 9294, 9302-9303
 - Penicillium expansum* 9294
 - Phomopsis amygdali* 7447
 - plum pox potyvirus 6620, 8351
 - Rhizopus stolonifer* 9294
 - Sphaerotheca pannosa* 7447
 - Switzerland 3748, 3751
 - Taphrina deformans* 3867, 7447
 - USA 7446, 9293
- diseases, books 995
- disorders
 - books 995
 - chilling injury 9301
 - chlorosis 175, 1149, 2958-2959, 3865
 - short life 3866
- economics
 - Chile 4675
 - France 173
 - USA 4675
- fertilizers
 - iron 2958-2959
 - nitrogen 2001, 2843, 2953-2954, 2965, 3863, 4833, 8347, 8350, 9290-9291
 - phosphorus 2843, 2955, 4833
 - potassium 2843, 2950, 2956, 3863, 4833, 9290
- flowers
 - composition 2000, 2951
 - development
 - physiology 9165
 - plant growth regulators 8353
 - initiation
 - cultural methods 3875
 - plant growth regulators 3860
 - thinning
 - cultural methods 3875, 7530
 - plant growth regulators 2005
 - responses 10213

Peaches cont.

- flowers cont.
 - thinning cont.
 - surfactants 5664, 8235
 - ultrastructure 5666
- frost, injuries 5284, 10085
- fruits
 - anatomy 5587
 - aroma, biochemistry 3885
 - biochemistry 178, 2849
 - bruising, measurement 9305
 - composition 3844, 3885
 - development
 - assessment 180, 2966
 - biochemistry 3876, 5665
 - cultivars 2966
 - models 72, 8354
 - plant growth regulators 10217, 10220
 - rootstock scion relationships 2840
 - water stress 6616, 8354
 - flavour, cultural methods 173
 - maturity
 - assessment 3881, 4838, 5667-5668, 7531, 10225
 - harvesting date 5667
 - physical properties
 - measurement 5668
 - storage 5670
 - quality
 - assessment 9304, 10225
 - cultural methods 10204, 10218
 - harvesting date 182
 - maturity 9300, 9304
 - models 8398
 - storage 182
 - ripening
 - biochemistry 179, 3879, 3882
 - maturity 9300
 - physiology 3877, 9299-9300
 - set, thinning 10217
 - thinning
 - fertilizers 2965
 - plant growth regulators 2006, 4837, 7449, 8235
 - responses 6625
 - ultrastructure 5666
- fungicides
 - injuries 2965
 - residues 2010, 10224
- grading, techniques 8230
- growth retardation, plant growth regulators 6619, 10213, 10215
- handling, techniques 10221
- harvesting, harvesting date, assessment 181
- history, reviews 3829
- in vitro* culture
 - callus, growth 3850
 - culture media 10211
 - embryos 3852
 - propagation
 - micropropagation 10211
 - responses 3843
 - responses, salinity 177
- insecticides, residues 1154, 6623
- irrigation
 - requirements, determination 3856, 6616
 - responses 2948, 8347, 9288
 - systems 5656, 6617-6618, 9290
 - water, salinity 3849, 3857, 5660
- leaves
 - abscission, physiology 5663
 - biochemistry, fruiting 176
 - composition 7527, 8349
 - mulching, responses 10218
 - mycorrhizas 5657
 - nutrients
 - requirements
 - analysis 175, 2000, 3861, 8349, 10088
 - assessment 2951-2952
 - uptake, mycorrhizas 5657
- packing, materials 5669
- pest control
 - Anarsia lineatella* 3868
 - arthropods 1150
 - Asymmetrasca decedens* 3873
 - Criconebella xenoplax* 2961
 - Cydia molesta* 1151, 3868-3870

Peaches cont.

- pest control cont.
 - Forficula auricularia* 3753
 - Frankliniella occidentalis* 2002-2003, 3871-3872, 8352
 - Hoplocampa* 6621
 - insects 2964
 - Italy 3864
 - Lygus rugulipennis* 1153
 - Mesolecanium nigrofasciatum* 116
 - Myzus persicae* 9296, 10214
 - Panonychus ulmi* 3869
 - Pseudaulacaspis pentagona* 1152
 - Switzerland 3748
 - Tortricidae 9296
 - USA 1921, 7446, 9293
- pesticides, residues 7421
- plant
 - biochemistry 70
 - composition 2947, 4836
 - development
 - physiology 3706
 - temperature 10212
 - water stress 6616
 - habit, physiology 7529
 - plant embryos, *in vitro* culture 5653
 - plant growth regulators
 - chlormequat, responses 6624
 - daminozide, responses 6624
 - dichlorprop, responses 4705
 - ethephon, responses 6624, 8353
 - ethylene, metabolism 8305
 - paclobutrazol
 - application date 6619
 - application methods 6619
 - responses 2949, 3860
 - plant nutrition
 - boron 7445
 - chlorine 5660
 - iron 175, 1149, 2957, 5655, 5658-5659
 - manganese 2957
 - sodium 5660
 - plant training, systems 1148, 3747, 3853, 8348, 9292
 - plant water relations, fruiting 6625
 - planting, systems 3853, 9162, 10905
 - planting stock, establishment 2932
 - pollen, tubes, development 7530
 - pollution, ozone 1999
 - production
 - Australia 10204
 - Brazil 6488
 - production possibilities, Malaysia 9130
 - protected cultivation
 - cultivars 1147
 - mulching 10218
 - plant training 3854, 9292
 - pruning 1147
 - pruning
 - systems
 - assessment 9291
 - root pruning 1147, 3858
 - regeneration, replanting 3855
 - reproduction, physiology 9166
 - respiration
 - cultural methods 3875
 - storage 10074
 - ringing, responses 4836
 - roots, development, assessment 68, 4834
 - rootstock scion relationships
 - compatibility 4827
 - growth 2947, 3841, 3855, 4829, 5654, 6613, 7528, 10209
 - plant nutrition 5654
 - salinity 3857
 - yields 2947, 3841, 3844, 3847-3848, 3855, 4829, 5654, 6613, 10209
 - rootstocks
 - characteristics 4830
 - disease resistance 5650
 - identification 6615
 - pest resistance 1146
 - plant nutrition 5655, 9285
 - propagation
 - cuttings 3741-3742, 4828
 - in vitro* culture 2932, 3851, 4831
 - salinity 3849
 - salinity, responses 3631, 3849, 3857, 5660

Peaches cont.

- seedlings, development, biochemistry 1155
- seeds
 - development
 - assessment 2966
 - cultivars 2966
 - germination, storage 5653
 - physiology 8305
- shade, responses 9286
- shoots
 - development
 - assessment 3874
 - cultivars 2004
 - fruiting 2004
 - histology 10083
 - vascular system 6573
- soil management
 - responses 2001, 9288
 - systems 9287
- soil solarization 1033
- soil types 2950
- storage
 - biochemistry 185, 6627
 - disease control 3884
 - diseases 3883, 9302
 - packing 4839
 - physiology 10074, 10079
 - systems
 - assessment 10221
 - cold storage 182, 2008, 4839
 - controlled atmosphere storage 10079-10080, 10222
 - temperature 5669, 9301
 - treatment 6627
 - wrappings 183
- surveys, Madagascar 4676
- taxonomy, numerical taxonomy 5634
- translocation
 - light 9297
 - source sink relations 3878, 9297
- trichomes 5666
- vascular system 6630
- water stress, responses 8354
- weed control 1033
- winter hardiness, assessment 4823
- yields, pests 8355

Peaches × almonds

- as rootstocks
 - nectarines 3840-3843, 3848
 - peaches 2947, 3841, 3843-3844, 3848, 3855
 - plums 1177
- cuttings, cultural methods 3741-3742
- in vitro* culture
 - responses
 - age 3851
 - containers 3851
 - salinity 177
- rootstocks, characteristics, Italy 6614

Pears

- chilling requirement 3889
- cultivars
 - assessment
 - Belarus 3740
 - Belgium 5592
 - Brazil 7405
 - Turkey 7534
 - books 10034
 - characteristics
 - books 989
 - China 10227
 - Hungary 10226
 - Russia 5672
 - Switzerland 8358
 - clones 8357
 - composition 5671
 - disease resistance 1157, 6628, 7440
 - flowering date 7538
 - history 1929
 - pest resistance 7533
 - plant nutrition 2983
 - pollination 130
 - storage 4845
- cultural methods, Switzerland 4711
- cuttings
 - rooting, seasonal variation 1159
 - treatment 1159
- disease control
 - Alternaria alternata* 10164
 - Alternaria kikuchiana* 10236

Pears cont.

- disease control cont.
 - Botrytis cinerea* 6588, 10164
 - Erwinia amylovora* 1086, 8292
 - India 7540
 - Italy 6629
 - Monilinia fructigena* 10164
 - Monilinia laxa* 10164
 - Nectria galligena* 109
 - Penicillium expansum* 2017, 6588, 9307, 10164
 - Phialophora malorum* 2017
 - Physalospora* 8366
 - Podosphaera leucotricha* 7483
 - Pseudomonas* 109
 - Rhizopus stolonifer* 10164
 - Stemphylium vesicarium* 1165, 7447
 - Switzerland 3748, 3751
 - Venturia inaequalis* 7447, 7483
 - Venturia pirina* 8367
 - Zygophiala jamaicensis* 10235
- disorders
 - alfalfa greening 188, 5678, 8365
 - black end 188
 - cork spot 188, 5678, 8365
 - hollow core 1168, 10146, 10243
 - internal breakdown 2974
 - internal browning 194, 10146, 10243
 - scald 193
 - skin blackening 1164, 10234
- drought, responses 10232
- economics
 - Chile 4675
 - USA 4675
- establishment, meadows 5584
- fertilizers 1163
 - boron 1082
 - calcium 188, 8365
 - manganese 1082, 10122
 - nitrogen 2843, 2954, 8364-8365
 - phosphorus 2843, 2955, 8364
 - potassium 2843, 2956, 8364
 - zinc 1082
- flowers
 - development
 - phenology 7538
 - physiology 9165
 - plant growth regulators 10238
 - temperature 6631
 - drop
 - environment 8370
 - physiology 8370
 - thinning
 - plant growth regulators 10131
 - responses 10239
- frost, injuries 10085
- fruits
 - abscission, physiology 5577
 - browning, biochemistry 8228
 - bruising, assessment 153
 - colour
 - fertilizers 10122
 - measurement 9313
 - composition 5671, 8319, 10069
 - development
 - assessment 8238
 - parthenocarp 3893
 - pollination 3893
 - flavour
 - cultivars 4843
 - rootstock scion relationships 4843
 - maturity, assessment 2973, 9158
 - mechanical properties
 - models 10148
 - storage 8373, 10148
 - physiology 818
 - quality
 - cultivars 10226
 - cultural methods 5677, 8301, 10241
 - irrigation 10232
 - measurement 9157
 - plant nutrition 188
 - thinning 10239
- ripening
 - physiology 5577
 - plant growth regulators 4842, 5679
 - storage 2017, 4844, 8371-8372

Pears cont.

- fruits cont.
 - set
 - plant growth regulators 10238, 10240
 - pollination 6632, 9309
 - temperature 9309
 - shape, assessment 191, 3899
 - size
 - plant growth regulators 4842, 7429
 - thinning 10239
 - thinning
 - plant growth regulators 2972, 10131
 - responses 10234
 - fungicides, residues 1165
 - grading, techniques 8230
 - grafting, budwood, sources 1086
 - growth retardation, plant growth regulators 10233
 - hail, injuries 4717
 - handling, techniques 8371
 - harvesting
 - harvesting date
 - assessment 1168, 2974, 4845, 9310-9312, 10146
 - conferences 9122
 - forecasting 2973
- in vitro* culture
 - biochemistry 1167
 - culture media 5558, 10230
 - propagation, micropropagation 10230
 - responses
 - cultivars 10230
 - light 1160
- interstocks 10229
- irrigation, responses 187, 1161, 8362, 10232
- leaves, physiology 9154
- manures 1163
- mulching
 - materials 7467
 - responses 7467
- pest control
 - Adoxophyes orana* 2905
 - Anthonomus piri* 1964, 2012
 - Archips podanus* 2905
 - Archips rosanus* 2905
 - arthropods 2969
 - Cacopsylla pyri* 2013, 7537
 - Cacopsylla pyricola* 8368
 - Cydia pomonella* 2901, 2905, 4776, 8298
 - Israel 2898
 - Metcalfa pruinosa* 1045, 4694
 - Pandemis heparana* 2905
 - Panonychus ulmi* 4776
 - Pseudococcus maritimus* 7536
 - Quadraspidiotus ostreaeformis* 1965
 - Quadraspidiotus pyri* 1965
 - Switzerland 3748
 - USA 1921
- pesticides, residues 7421
- pests, surveys, Chile 6516
- photosynthesis, cultural methods 8301
- plant, canopy, light 3888
- plant growth regulators
 - benzyladenine, responses 10103
 - gibberellic acid
 - application date 7535
 - responses 10103
- plant nutrition
 - calcium 188, 5678
 - iron 2983, 5659
 - nitrogen 2825, 10122
- plant training
 - economics 10231
 - systems 186, 3747
- planting
 - spacing 186, 10231
 - systems 6550-6551, 10905
- pollen, viability, cultivars 6632
- pollination
 - compatibility 130
 - cultivars 191
 - pollinators, Apidae 8236
- pollution
 - dusts 8262
 - tolerance 7441

- Pears** *cont.*
 production
 Austria 3760
 Italy 8232
 products
 carbohydrates 7541
 fibre 7541
 pruning
 seasons 3888
 systems, assessment 3781
 reports, Belgium 1888, 9127
 reproduction, physiology 9166
 respiration, storage 10074
 roots, biochemistry, plant nutrition 2983
 rootstock scion relationships
 growth 3887
 quality 4843
 yields 3887
 rootstocks
 assessment, UK 3744
 characteristics, Italy 4841
 flooding 8360
 plant nutrition 2983
 propagation, techniques 4840
 waterlogging 10237
 seedlings, development, assessment 2014
 shoots, development, plant growth regulators 1162, 9190, 10118
 soil management, systems 7467
 soil pH, responses 8363
 storage
 cultivars 4845
 disease control 2017, 6588, 7540, 10164
 disorders 194, 1168, 2974, 8375, 10243
 humidity 4844
 models 10148
 physiology 8372, 10074
 precooling 10243
 quality
 assessment 4845, 8373
 cultivars 2974
 harvesting date 194, 8375, 9310-9312, 10243
 irrigation 187
 maturity 2974
 plant nutrition 8372
 systems
 cold storage 2017, 5626
 controlled atmosphere storage 141, 193, 2017, 5626
 modified atmosphere storage 193
 temperature 192
 treatment 144, 2017, 6634, 8371-8372
 surveys, Tajikistan 5583
 transpiration, cultural methods 8301
 weed control 1949, 2011, 5675, 7467
 winter hardiness, fertilizers 8365
- Pears × *Pyrus pyrifolia***, nutrients, requirements, assessment 2968
- Pears × quinces**, chilling requirement 3889
- Peas**
 anoxia 7760
 as green manures, melons 6414
 buds, development, assessment 8607
 chloroplasts
 biochemistry 448, 1367, 1397, 3132, 5979, 6862-6863
 composition 6861
 physiology
 light 7738
 plant growth regulators 5977
 temperature 6867
 ultraviolet radiation 6867
 ultrastructure 9539
 cold, responses 9527
 conferences 5542
 cotyledons
 biochemistry 453, 2258, 5972, 5976
 composition 9542
 in vitro culture 1390
 physiology 6873
 cultivars
 assessment
 Brazil 7405, 7753
 India 9533
 characteristics, China 3210
 identification 7752
 plant nutrition 10502
- Peas** *cont.*
 cultivars *cont.*
 registration 7754
 cultural methods, Netherlands 2244
 cytology 7759
 disease control
 Aphanomyces euteiches 7758
 Botrytis 8605
 Erysiphe graminis 3213
 Peronospora viciae 8605
 embryos, ultrastructure 1393
 fruits
 development, plant growth regulators 1401
 physiology 5982
 set, plant growth regulators 1400
 geotropism 7761, 8557
 heat, responses 3216, 7756
 herbicides
 alachlor, injuries 7757
 injuries 439, 8606
 responses 9539
 tolerance 3071, 9492
in vitro culture
 biochemistry 10508
 cytology 5980
 plant embryos 6858
 propagation, micropropagation 6858
 somatic embryogenesis 1389-1390
 techniques 5557
 intercropping, mangoes 7324
 irrigation, frequency 440
 leaves
 biochemistry 2257-2258, 5978, 6871, 8611
 plant nutrition 8501
 ultraviolet radiation 6027
 composition 3221, 4174
 development
 ultraviolet radiation 5973
 water stress 3217
 physiology 2250, 9538
 senescence 1394, 9540
 mitochondria, biochemistry 449, 2249, 2257, 4172, 8614, 9536, 9541
 mutants, physiology 1395, 5978, 6870
 mycorrhizas 441, 10501
 pest control
 insects 3214
 Sitona lineatus 442
 photosynthesis
 light 445, 9537
 photoinhibition 444, 5057, 5968-5969, 6864, 6866, 8608-8609
 physiology 445-446, 5967, 5970-5971
 temperature 9537, 10505
 ultraviolet radiation 1395
 water stress 6865, 8610
 plant
 biochemistry 2255, 6522, 6872, 9436
 carbon dioxide 5965
 fluorine 10503
 development, apical dominance 1396, 10071
 physiology 5968
 plant embryos
 biochemistry 1398
 development, biochemistry 2261
 plant extracts, application, vegetables 4081
 plant growth regulators
 alcohols, responses 1031
 brassinosteroids, composition 8612
 cytokinins, metabolism 2245
 ethylene
 biosynthesis 447
 physiology 5574, 7428
 reviews 5573
 IAA
 responses 10504
 translocation 10507
 plant nutrition
 cadmium 1391, 10364
 fluorine 10503
 iron 4139
 nitrogen 5965, 10502
 phosphorus 5965
 plant water relations, physiology 3218
 pods
 development
 physiology 454
- Peas** *cont.*
 pods *cont.*
 development *cont.*
 plant growth regulators 4176
 pollen, cytology 5981
 pollution
 acid rain 5964
 cadmium 6859, 6869
 nitrogen oxides 9540
 ozone 438
 processing, cultivars 7753
 production, Colombia 10358
 production possibilities, USA 8491
 protected cultivation, systems, plastic tunnels 317
 reproduction, physiology 5060
 research, space science 8613
 respiration, photorespiration 2251
 roots
 anatomy 1392
 biochemistry 3219, 6871, 8615
 mycorrhizas 441
 plant growth regulators 5058
 cytology 2248, 3215, 8606
 development
 cultural methods 6860
 models 443
 plant growth regulators 5058
 nodulation 8615
 physiology 3218, 7760
 vascular system 1392
 salinity, responses 5966, 9535
 seedlings
 biochemistry 450-451, 1399, 3220, 6212
 plant growth regulators 2253
 composition 2247, 4175
 development
 cultural methods 6860
 plant growth regulators 5575
 physiology 2209, 2252, 5975
 seeds
 biochemistry 2256, 2259, 3185, 4171, 5059, 5963, 6857
 composition 452, 1265, 3211-3212, 4173, 6857, 8612, 9534
 development
 biochemistry 5055, 10499, 10508
 physiology 437
 germination
 biochemistry 2245-2246, 4171, 5055-5056, 10487, 10499-10500, 10508
 cultivars 8604
 physiology 436-437
 plant growth regulators 10500
 pollution 6859
 temperature 7756
 imbibition, physiology 7755
 mechanical properties
 assessment 1386
 cultivars 1388
 moisture content 1388
 moisture content 1386-1387
 physiology 6873
 vigour, cultivars 8603-8604
 shoots
 composition 2260
 morphology 2254
 physiology 5974
 soil amendments 7757
 soilless culture
 growing media 1391
 plant nutrition 10502
 storage, quality, assessment 3737
 surveys, Netherlands 1891
 taxonomy, chemotaxonomy 7752
 translocation
 models 454
 physiology 10506
 source sink relations 8184
 temperature 10505
 water stress, responses 6868, 8610
 weed control 8605
 yields, pests 3222
- Peat**
 utilization
 casing, mushrooms 2338-2339, 2346-2347
 growing media
 Angelica archangelica 1672

Peat cont.

utilization cont.

growing media cont.

- Anthurium* 687, 6107
- bedding plants 3381
- Capsicum* 9564
- carnations 6088
- chrysanthemums 3388
- Clematis* 3504
- Codiaeum* 7920
- Cotoneaster dammeri* 8873
- cucumbers 3173-3174, 5892, 8567
- culinary herbs 751
- Cupressocyparis leylandii* 3475-3476
- Cupressus arizonica* 3478
- Cupressus sempervirens* 9772
- Cyclamen* 3426
- Cyclamen persicum* 3425
- Dendrobium* 1606
- Dieffenbachia* 7920
- Ficus infectoria* 6218
- Forsythia ovata* × *Forsythia europaea* 8873
- Gerbera* 8664, 8753, 9667
- grapes 9381
- horticultural crops 51, 2814, 4679, 6511
- Impatiens* 4307
- lettuces 9459
- Lilium* 7896
- melons 3666
- Orchidaceae 9751
- ornamental plants 6121
- ornamental woody plants 1617, 2464, 3466, 6185
- peaches 4827-4828
- Phalaenopsis* 1606, 7940
- poinsettias 4393
- Prunus cistena* 6232-6233
- Ravenia rivularis* 687
- roses 6197
- strawberries 246, 1205, 3019, 5724, 5728, 5731, 6675, 10296
- Swietenia mahagoni* 5296
- tomatoes 3270-3271, 8664, 9590
- mulches, *Vaccinium corymbosum* 3009, 9353
- propagation
 - Lagerstroemia indica* 7973
 - poinsettias 5264
- soil amendments
 - chrysanthemums 3392
 - Vaccinium* 4880

Pecans

- cold, resistance, cultivars 7543
- cultivars
 - assessment
 - South Africa 2018
 - USA 197
 - characteristics
 - Chile 7542
 - USA 2975, 2977, 4846
 - flowering date 9315
 - fruiting 10244-10245
 - temperature 7543
- disease control, *Cladosporium caryigenum* 2978
- disorders, shuck dieback 10246
- flowers, development, cultivars 9315
- fruits
 - set, cultivars 10244
 - thinning, plant growth regulators 1172
- harvesting, harvesting date, assessment 200
- irrigation, systems 199
- nuts
 - colour, assessment 8376
 - composition 4849
 - drop, cultivars 10245
 - mechanical properties, assessment 4848
 - moisture content 2019
 - quality
 - cultivars 197
 - harvesting date 200
- pest control
 - Curculio caryae* 4847
 - insects 2979

Pecans cont.

pest control cont.

- Nezara viridula* 6635
- USA 9314
- plant, thinning, techniques 198
- planting stock, types, assessment 198
- production, USA 195
- products, confectionery 2975
- research, USA 196
- rootstock scion relationships, compatibility 5680
- storage, treatment 6636
- surveys, USA 1170-1171, 2976

Pectins

- biochemistry, apples 143
- characterization
 - Alcea rosea* 8894
 - apples 4807
 - vegetables 4019
- composition
 - apples 135, 6579, 10157
 - Citrus* 5363
 - oranges 1739
 - vegetables 5775
- determination, nectarines 2007
- extraction
 - apples 4807
 - celery 4256
 - Citrus pseudolimon* 8086
 - cocoa 1774
 - tropical fruits 1774
- metabolism
 - calcium
 - kiwifruits 1188
 - tomatoes 1473
 - cultivars, radishes 5886
 - development
 - nectarines 180
 - peaches 180
 - flowering, strawberries 4892
 - gamma radiation, pawpaws 9064
 - physiology, Chinese cabbages 6792
 - ripening
 - guavas 918
 - kiwifruits 218, 10274
 - Litchi* 9902
 - mangoes 923
 - pawpaws 9064
 - storage
 - apples 142, 9219, 10158
 - bananas 3652, 8502
 - guavas 10947
 - nectarines 2009
 - radishes 5886
 - strawberries 9373
 - vegetables 8502
- ultrastructure, tomatoes 1469

Pelargonium

- books 3700
- cultivars, consumer preferences 8759
- cuttings, treatment 9834
- disease control
 - Botrytis* 10623
 - Puccinia pelargonii-zonalis* 5175
 - Pythium* 10623
 - Xanthomonas* 10623
- plant, development, assessment 8906
- plant growth regulators, flurprimidol, responses 8740

Pelargonium capitatum

- flowers, morphology 5318
- geographical distribution 5318
- leaves, composition 5318

Pelargonium graveolens

- plant, morphology 2386
- production possibilities, India 7146

Pelargonium hortorum

- disease control, *Botrytis cinerea* 9672
- fertilizers, nitrogen 9671
- growing media, composition 3399
- herbicides
 - injuries 8745
 - tolerance 2377
- plant, development, temperature 4289
- plant growth regulators, methanol, responses 4290
- plant nutrition
 - iron 1545
 - manganese 1545
 - trace elements 4291

Pelargonium hortorum cont.

- roots, development, plant growth regulators 5176
- seedlings, treatment 9671
- weed control 2377
- Pelargonium pelatum**
 - disease control
 - Peronosporaceae 7000
 - Rhizoctonia solani* 7000
 - Xanthomonas campestris* pv. *pelargonii* 7000
- Pelargonium reniforme**, taxonomy, nomenclature 5174
- Pelargonium roseum**
 - in vitro culture
 - propagation
 - micropropagation 5319
 - responses 5319
- Pelargonium zonale**
 - disease control
 - Peronosporaceae 7000
 - Rhizoctonia solani* 7000
 - Xanthomonas campestris* pv. *pelargonii* 7000
 - leaves, physiology 9673
 - pot plants, development, temperature 10611
 - protected cultivation, humidity 6102
- Peltaster fruticicola**, apples 5610
- Penicillium**
 - apples 7477
 - carrots 9623
 - cucumbers 6838
 - dates 5416
 - kumquats 845
 - weed moulds, *Lentinula edodes* 8731
- Penicillium allii**, tulips 5202
- Penicillium digitatum**
 - Citrus junos* 10864
 - clementines 10823
 - grapefruits 4530, 5400, 7219
 - lemons 2623, 8082
 - mandarins 6342
 - oranges 1742-1743, 6332
 - ortaniques 5404
- Penicillium expansum**
 - apples 2920, 3805, 6588, 10164
 - nectarines 1156, 9294
 - peaches 9294
 - pears 2017, 6588, 9307, 10164
- Penicillium frequentans**, control, of *Monilinia laxa*, peaches 5662
- Penicillium funiculosum**
 - control
 - of *Phytophthora cinnamomi*, *Rhododendron* 3488
 - of *Phytophthora citrophthora*, oranges 3488
 - of *Phytophthora nicotianae* var. *parasitica* oranges 3488
 - Rhododendron* 3488
- Penicillium hirsutum**, tulips 4332, 5202
- Penicillium italicum**
 - Citrus junos* 10864
 - clementines 10823
 - grapefruits 7219
 - lemons 8082
 - mandarins 847, 6342
 - oranges 1742-1743, 6332
 - ortaniques 5404
- Penicillium oxalicum**, control, of *Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 1452, 6018
- Penicillium purpurogenum**
 - control
 - of *Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 6018
 - of *Monilinia laxa*, peaches 5662
- Pennisetum clandestinum**
 - as weeds, lawns and turf 8805
 - irrigation, requirements, determination 2423
 - nutrients, requirements, assessment 2423
- Pennisetum setaceum**, dried flowers, production 9654
- Penstemon hartwegii** × **Penstemon cobaea**, cut flowers, preservatives 7431
- Pentalonia nigronervosa**, *Alpinia purpurata* 653
- Pentas lanceolata**, plant nutrition, iron 4426

- Peperomia metallica***, photosynthesis, physiology 686
- Peperomia obtusifolia***, pot plants, production, cultural methods 5219
- Peperomia serpens***, pot plants, production, cultural methods 5219
- Pepper mild mottle tobamovirus**, *Capsicum* 1314
- Peptides**
 biochemistry, tomatoes 6935
 characterization
 Gymnema sylvestre 10812
 spinach 7679
 responses, tomatoes 5118
- Pereskia aculeata***, wild plants, utilization, Cape Verde 9731
- Perileucoptera coffeella***, coffee 1802, 8140, 9955, 10925
- Perilla frutescens***
in vitro culture
 culture media 9825
 metabolites, production 9825
 plant, composition 5320
 seeds, germination, seed treatment 9416
 shoots, biochemistry, flowering 8038
 soilless culture, cultural methods 755
 trichomes 5320
- Peristeria***, taxonomy, nomenclature 7056
- Peristylus richardianus***, geographical distribution 7061
- Perlite**
 utilization
 growing media
 Anthurium 6107
 Bactris gasipaes 5524
 Capsicum 3236, 9563
 carnations 9657
 chrysanthemums 3388-3389
 Codiaeum 7920
 cucumbers 3172, 5892
 culinary herbs 751
 Cupressocyparis leylandii 3476
 Cupressus arizonica 3478
 Cyclamen 3426
 Cyclamen persicum 3425
 Dendrobium 1606
 Dieffenbachia 7920
 Ficus infectoria 6218
 Gerbera 8664, 8752-8753, 8755, 10622
 Gypsophila 613
 horticultural crops 6511, 8210
 lettuces 9459
 melons 908, 3666
 ornamental woody plants 3466
 peas 1391
 Phalaenopsis 1606
 strawberries 246, 3019, 5729, 8427
 tomatoes 7804, 8664
 propagation
 Lagerstroemia indica 7973
 poinsettias 5264
- Peronospora arborescens***, *Papaver somniferum* 7174-7175, 10796
- Peronospora parasitica***, cabbages 1333, 8552
- Peronospora sparsa***, roses 5268
- Peronospora viciae***, peas 8605
- Peronosporaceae**
Pelargonium peltatum 7000
Pelargonium zonale 7000
- Persea*** (see also *Avocados*)
- Persimmons**
 cultivars
 assessment
 Australia 10893
 China 869
 Japan 869, 8991
 Taiwan 8991
 composition 4561
 identification 4558, 6364
 pest resistance 1892
 taxonomy 2654
 cultural methods, China 4557
 disease control, *Alternaria alternata* 1765
 disorders
 calyx cavity 5435
 calyx separation 10893
 drying, techniques 870, 3628
 frost, resistance, cultivars 4559
- Persimmons cont.**
 fruits
 biochemistry 10897
 cultivars 8993
 treatment 8993
 composition 871-872, 4561
 development
 cultivars 2656
 cultural methods 9916
 flavour, handling 9917
 mechanical properties, measurement 5438
 physiology 9916
 quality, drying 3628
 ripening
 biochemistry 5436, 9919
 plant growth regulators 9919
 set
 pollination 7254
 position 5435
 grading, techniques 8230
 growing media, composition 2655
in vitro culture
 organogenesis 9915
 storage 4560
 leaves, composition 868
 nutrients, requirements, analysis 868
 pest control
 Eriococcus lagerstroemiae 8992
 Halyomorpha halys 10895
 Metcalfa pruinosa 4694
 Riptortus clavatus 10895
 pests, surveys, Chile 6516
 photosynthesis, cultivars 5434
 plant, composition 10896
 plant growth regulators
 benzyladenine, responses 2657
 forchlorfenuron, responses 2657
 gibberellic acid, responses 1765
 thidiazuron, responses 2657
 planting stock, production, cultural methods 10894
 pollination, cultivars 7254
 production
 Australia 10892
 China 10891
 Malaysia 9130
 Vietnam 2667
 production possibilities, Argentina 5357
 products, tannins 5439
 respiration, cultivars 5434
 roots
 cytology 8107
 physiology 5434
 storage
 physiology 10079
 quality, plant growth regulators 9919
 systems, controlled atmosphere storage 3629, 10079
 treatment 5437
 wrappings 9918
- Persoonia sericea***, seeds, germination, seed treatment 1653
- Persoonia virgata***, cuttings, cultural methods 1653
- Pestalotia***, epiphytes, tea 10019
- Pestalotia theae***, tea 6451
- Pestalotiopsis palmarum***, coconuts 8133
- Pesticides** (see also *Acaricides*; *Bird repellents*; *Fungicides*; *Herbicides*; *Insecticides*; *Nematicides*)
 azinphos-methyl, residues, kiwifruits 212
 carbofuran, residues, *Trapa natans* 1496
 chlorpyrifos
 residues
 apples 6571
 kiwifruits 212
 chlorpyrifos-methyl, residues, grapes 1257
 deltamethrin, residues, apples 6571
 diazinon, residues, kiwifruits 212
 dicofol, residues, kiwifruits 212
 dimethoate, residues, olives 866
 fenpropathrin, residues, tomatoes 8695
 fenthion, residues, olives 866
 methidathion
 residues
 apples 6571
 kiwifruits 212
 phosmet, residues, kiwifruits 212
- Pesticides cont.**
 residues
 fruit crops 9152
 vegetables 9152
- Petasites japonicus***
in vitro culture
 responses, ventilation 8539
 storage 8540-8541
 leaves, aroma, biochemistry 6781
- Petilium*** (see *Fritillaria*)
- Petroselinum crispum***
 fertilizers
 copper 4691
 nitrogen 9826
 zinc 4691
 herbicides, tolerance 8500
in vitro culture
 biochemistry 3513, 4438
 cell suspensions 3513
 propagation, micropropagation 6249, 6268
 protoplasts 4438
 irrigation, water, sources 2111
 leaves, senescence 6257
 manures 3520
 plant, biochemistry 1667, 3320
 plant nutrition, copper 2146
 planting, spacing 747
 production, Belgium 10763
 protected cultivation, systems, plastic tunnels 747
 seedlings, emergence, soil structure 1269
 seeds
 composition 1265, 3521
 germination
 light 6267
 soil amendments 9418
 temperature 6267
 viability, assessment 6267
 translocation, physiology 6248
 weed control 1035, 1671
- Petroselinum crispum* subsp. *tuberosum***
 seeds
 germination, tests 2330
 size, assessment 2330
- Petunia***
 chromosomes 5053
 cultural methods, hanging baskets 4292
 cut flowers, senescence 9675, 10624
 disease control, *Phytophthora nicotianae* var. *parasitica* 6990
 flowers
 development, biochemistry 608
 senescence 609
 growing media, composition 3381
 herbicides, injuries 8745
in vitro culture
 biochemistry 2387
 metabolites, production 54
 irrigation, frequency 5177
 leaves, composition 6104
 manures 2161
 nutrients, requirements, assessment 7001
 ovules, physiology 2388
 plant
 biochemistry 3400
 development, temperature 4293
 plant nutrition, potassium 1546
 planting stock, production, cultural methods 3381, 5177
 pollen
 biochemistry 3401
 treatment, heat 9674
 viability, tests 9674
 pot plants, economics, Argentina 4294
 protected cultivation, systems, greenhouses 4294
 protoplasts, isolation 6103
 reproduction, fertilization 2388
 respiration, biochemistry 4295
 roots, physiology 5053
 seedlings, production, plant nutrition 7001
 seeds, composition 8760
- Petunia inflata***
 genetics 7869
 pollen, development, genetics 7869
- Petunia integrifolia***
 flowers, morphology 607
 taxonomy, morphology 607

- Peucedanum decursivum**, taxonomy, chemotaxonomy 6288
- Peucedanum mashanense**, taxonomy, chemotaxonomy 6288
- Peucedanum officinale**, ecology, UK, reviews 9856
- Peucedanum quangxiense**, taxonomy, chemotaxonomy 6288
- Pezicula alba**, apples 1126
- Phaenocoma prolifera**, characteristics 7978
- Phaius tankervilleae**
in vitro culture
 culture media 4371, 4382, 7930
 embryos 7930
 organogenesis 10712
 propagation, micropropagation 4371, 7939
 seeds, germination, *in vitro* culture 4382
- Phalaenopsis**
 cut flowers
 responses, plant growth regulators 6179
 senescence 7063, 9763
 fertilizers
 nitrogen 7940
 phosphorus 7940
 potassium 7940
 flowers
 biochemistry, pollination 704, 10713
 initiation, *in vitro* culture 4383
 senescence 7063
 fruits, biochemistry, pollination 704
in vitro culture, responses, antibiotics 2450
 plant growth regulators, ethylene, physiology 7063
 pollination, biology 10713
 pot plants
 production, cultural methods 7940
 quality
 fertilizers 1606
 growing media 1606
 research, Taiwan 8203
 soilless culture, nutrient solutions, composition 7940
 taxonomy
 new taxa 693
 nomenclature 998
- Phalaris canariensis**, as weeds, *Pimpinella anisum* 1675
- Phalaris minor**, as weeds, cabbages 9475
- Phanerophlebia falcata** (see *Cyrtomium falcatum*)
- Pharbitis** (see also *Ipomoea*)
- Pharbitis nil**
 circadian rhythm 1543, 3397
 cotyledons, histology 6999
 flowers
 colour, biochemistry 6101
 development
 biochemistry 4288
 photoperiod 4288
 initiation
 biochemistry 9669
 plant growth regulators 9670
 temperature 9669
 senescence 7868
 leaves, biochemistry, light 4287
 photoperiodism 1542, 3397
 plant
 development
 apical dominance 10071
 light 10071
 plant growth regulators
 abscisic acid, determination 6100
 gibberellins, determination 6100
 IAA, determination 6100
 seedlings, biochemistry, photoperiod 6099
 stomata, development, anatomy 6998
- Pharbitis purpurea**
 flowers, colour, biochemistry 1544
 seedlings, development, plant growth regulators 3398
- Phaseolus**
 pest control, Spain 2116
 plant growth regulators, ethylene, physiology 5574
 taxonomy, chemotaxonomy 3194, 8588
- Phaseolus acutifolius**, taxonomy, chemotaxonomy 8588
- Phaseolus angularis** (see *Vigna angularis*)
- Phaseolus coccineus**
 chloroplasts, development 5047
 cultivars, characteristics, Italy 5927
 disease control, fungi 1380
 leaves, development, plant nutrition 2232
 plant nutrition, copper 2232
 seeds
 biochemistry 427, 3202
 composition 5052, 8600
 development, biochemistry 9529
 storage, biochemistry 9529
 treatment 1380
 soilless culture, responses 3175
 taxonomy, chemotaxonomy 8588
- Phaseolus lunatus**
 seeds, composition 8600
 taxonomy, chemotaxonomy 8588
- Phaseolus vulgaris**
 as cover crops, tea 953
 chloroplasts, biochemistry 5049
 cold, responses 5941, 9527
 cotyledons
 biochemistry 5976
 light 5939
 senescence 2237
 cropping systems
 agroforestry 5457
 intercropping 10489
 cultivars
 assessment
 Belgium 1373
 Brazil 7405
 France 5926
 characteristics
 Brazil 5928-5929
 USA 1374
 identification 1372, 4158
 pest resistance 10485
 photoperiodism 5942
 cultural methods 4157
 disease control
 Belgium 1373
Mycovellosiella phaseoli 1381
Rhizoctonia solani 1047
Uromyces appendiculatus 3199
 ecology, books 7388
 economics
 Argentina 3723
 Canada 8492
 electrical properties, plant nutrition 5940
 fertilizers 8592
 manganese 6738
 nitrogen 8593, 10362
 phosphorus 10362
 potassium 10362
 fungicides, residues 3081
 green manures 8496
 harvesting, harvesting date, assessment 1375
 heat, responses 6851
 herbicides
 injuries 1379, 8606
 tolerance 3071
in vitro culture
 biochemistry 425
 cell suspensions 5947
 propagation, micropropagation 2224
 responses, fungal elicitors 2239
 intercropping, cabbages 10489
 irrigation, responses 1375
 leaves
 anatomy 2230
 biochemistry 5049, 5944, 8594-8595, 10477, 10494
 diurnal variation 2238
 composition 8598
 development
 biochemistry 4165, 10495
 carbon dioxide 6849
 movement, light 3201, 5046
 ultrastructure 2230
 vascular system 7748
 manures 4940, 8670
 mulching, responses 1047, 5934, 6842, 8496
 nutrients, requirements, analysis 323
 organic culture 6011
 pest control
 Belgium 1373
Bemisia tabaci 1270, 5006
- Phaseolus vulgaris cont.**
 pest control cont.
Ophiomyia phaseoli 7747
Thrips palmi 1271
 photoperiodism 5942
 photosynthesis
 biochemistry 8594
 light 2234
 measurement 1912
 photoinhibition 424, 2233
 physiology 10492
 pollution 3196, 9521
 soil amendments 6846
 temperature 2234
 ultraviolet radiation 4163
 plant
 biochemistry 426
 development
 apical dominance 10071
 assessment 4160
 light 2234, 9528
 plant growth regulators 9528
 temperature 2234
 physiology 5945
 vascular system 4161
 plant growth regulators
 ethylene
 physiology 7428
 reviews 5573
 plant nutrition
 cadmium 6847, 7746, 8673, 10364
 calcium 2229-2230, 9525-9526
 copper 6848
 iron 2231
 nitrogen 5935-5936, 9524
 phosphorus 422, 5937-5938, 7745
 potassium 2229
 vanadate 5045
 vanadium 423
 plant residues, utilization, fodder 2119
 plant water relations, physiology 6850
 planting, spacing 6844
 pods, composition 9525, 10496
 pollution
 acid rain 3197, 9422, 9522
 cadmium 5042, 10467
 nickel 5042
 nitrogen oxides 1376
 ozone 421, 1377-1379, 2225, 3196, 5043, 5933, 7744, 9520-9521
 radionuclides 2107
 uranium 316
 zinc 8591
 production 4157
 Colombia 10358
 protected cultivation
 cladding 2226
 heating systems 2226, 5934
 plant nutrition 323
 systems, greenhouses 5044
 temperature 9523
 ventilation 9523
 respiration
 biochemistry 4162
 plant nutrition 5937
 roots
 cytology 5956, 8606
 exudates 5048
 nodulation 2227-2228, 3198
 orientation 5938
 physiology 5940, 6850
 salinity, responses 2236
 sap, composition 5935
 seedlings
 biochemistry 4164, 5905, 5946, 10493
 plant growth regulators 6853
 development, plant growth regulators 8596
 emergence
 mulching 6842
 soil structure 1269
 physiology 5943, 6852
 seeds
 biochemistry 8597
 composition 7743, 8600
 development
 biochemistry 9529
 models 5050

Phaseolus vulgaris *cont.*seeds *cont.*

germination

biochemistry 5931-5932, 10486-10487

physiology 420

salinity 6843

seed treatment 5045

soil amendments 9418

tests 6843

imbibition

injuries 10488

moisture content 10488

temperature 10488

injuries, assessment 5949

maturity, assessment 7749

mechanical properties

assessment 5930

cultivars 5930

physiology 8589

production, cultural methods 7750

sowing

sowing date 3195, 7750

spacing 1375, 7750

storage, biochemistry 9529

treatment 4159, 8590, 10490

shoots

abnormal development 530

development, light 2235

soil amendments 325, 4940, 6845-6846, 9427

soil compaction, responses 2112

soil solarization 1047

soil types 6845

storage

systems

controlled atmosphere storage

5051, 8599

modified atmosphere storage 9530

taxonomy, chemotaxonomy 8588

water stress, responses 3200

weed control 1373

yields, diseases 5948

Phasmarhabditis hermaphrodita, control, of

Gastropoda, lettuces 1316

Pheidole megacephala, *Alpinia purpurata*

653

Phellinus igniarius, grapes 3059**Phenolic compounds**

biochemistry

fruit crops 2815

grapes 10347

Helichrysum bracteatum 8774

tea 7369

tropical crops 1773

biosynthesis

Asparagus 5067

Glycyrrhiza 8033

grapes 10328

Pimpinella anisum 5304, 10752

characterization

Agrostophyllum callosum 7931

Agrostophyllum khasianum 8834

grapes 2074, 6716

Pleione bulbocodioides 7941

composition

algae 775

Aloe scabrifolia 9734

Aloe turkanensis 9734

apricots 8322, 9244

Brassica 4085

carnations 4282

carrots 10578

Chamomilla recutita 8026

Citrus 5363

cocoa 4596

Delphinium formosum 8767

Ensete 5455

grapes 296, 3987, 6684, 6725, 8490,

9376, 9405, 10351

Hydrangea macrophylla 5262

jackfruits 1777

Jasminum sambac 7081

Lilium martagon 5199

Luisia volucris 701

Magnolia 8851

Maytenus aquifolium 5341

Musa 5455

Ocimum 8015

persimmons 871

Pharbitis nil 6999

Phenolic compounds *cont.*composition *cont.*

plants 53

strawberries 1214

tea 4647-4648, 6459, 7368

tomatoes 1465

Vaccinium corymbosum 8421

Vismia guianensis 2570

conferences 10051

diffusion, measurement, *Prunus laurocer-*

asus 5292

extraction, grapes 310

metabolism

alcohols, lettuces 4992

altitude, olives 9909

biochemistry, fruit crops 8228

browning, mushrooms 3340

choline, lettuces 4992

climate

grapes 10348

tea 9090

cropping systems, tea 2755

cultivars

pears 4843

Vaccinium angustifolium 3924

development

Cynoglossum officinale 8028

Mentha arvensis 5314

peaches 3876

Ziziphus spina-christi 3693

diseases, grapes 10348

disorders

apples 5627, 8314

avocados 4485

fertilizers, *Cupressus sempervirens*

9771

flowering, cashews 7282

forcing, grapes 8484

growing media, *Cupressus*

sempervirens 9772

in vitro culture

apples 3769

coffee 9035

grapes 8483

Limonia acidissima 8035

irrigation, olives 5425

light, *Cupressus sempervirens* 9771

maturity

tea 4649

Vaccinium angustifolium 3924

models, mangoes 6432

mycorrhizas

lettuces 4992

Ziziphus xylopyrus 11017

nitrogen, lettuces 2172

physiology, *Paeonia lactiflora* 2562

plant growth regulators, tea 6457

plant nutrition, tomatoes 6024

pollution, *Cucurbita pepo* 9504

ripening

grapes 304, 2099, 7637

Litchi 9902

olives 9909

rootstock scion relationships

grapefruits 7196

pears 4843

seasonal variation

apples 5618

Chamomilla recutita 7162

Ficus infectoria 6218

Ficus retusa 9274

storage

apples 3804, 8314, 10163

peaches 4839

rambutans 10024

ultraviolet radiation, grapes 2099

vitricification, *Origanum vulgare* 5316

water stress, lettuces 4992

responses

carnations 1535

Petroselinum crispum 3513

taxonomy

Fumariaceae 2536

grapes 8441

Papaveraceae 2536

Teucrium 10802

Phialophora malorum, pears 2017

Philadelphus, cultivars, characteristics, USA

9769

Philippines

coconuts, production 895

Philippines *cont.*

garlic, production 5803

onions, production 5803

small fruits, production 9355

Philodendron billietiae, cultural methods,

Belgium 3455

Philodendron bipinnatifidum, pot plants,

production, cultural methods 8831

Philodendron erubescens, pot plants, storage

10607

Phlebodium aureum, leaves, biochemistry

5223

Phloeosinus aubei, ornamental conifers 716,

1622

Phloeosinus thujae, ornamental conifers

716, 1622

Phloeotribus scarabaeoides, olives 5426

Phlomis fruticosa

leaves

biochemistry 5289

physiology 9676

photosynthesis, drought 5289

plant water relations, water stress 5289

Phlox

forcing 595

pot plants, production, cultural methods

595

Phlox paniculata

cut flowers, preservatives 2397

in vitro culture, organogenesis 5188

Phlyctinus callosus, apples 1093, 2902,

7487

Phoenix (*see also* Dates)

Pholiota, growing media, composition 2334

Pholiota nameko

in vitro culture, physiology 6071

mycelium, growth 6981

Phoma

apples 2920

tomatoes 2305

Phoma asparagi, *Asparagus* 8619

Phoma exigua *var. inoxydabilis*, *Vinca*

minor 1659

Phoma glomerata, *Cycas revoluta* 7967

Phomopsis

kiwifruits 2042

tomatoes 2305

Phomopsis amygdali

peaches 7447

stone fruits 9163

Phomopsis mangiferae, mangoes 9984

Phomopsis psidii, guavas 916

Phomopsis sapotae, sapodillas 916

Phomopsis sclerotoides, cucumbers 5106

Phomopsis vexans, aubergines 10534

Phomopsis viticola, grapes 8470

Phonapate frontalis, dates 6346

Phosphates, metabolism, circadian rhythm,

cucumbers 409

Phosphorus

application date, cucumbers 4137

application methods

peaches 2955

pears 2955

biochemistry

apples 8242

tomatoes 2309

composition

apples 2921-2922, 9203

bananas 9935

black currants 7566

carnations 598

cherries 1134

Coriandrum sativum 10748

edible fungi 1497, 9627

Ficus 10202

grapes 9391

Hericium erinaceus 1503

horticultural crops 1052

Juglans 10261

kiwifruits 7559

Lentinula edodes 5149

lettuces 4083

mangoes 1836

olives 3619

Osmunda japonica 1497

Phosphorus cont.

composition cont.

walnuts 8392

deficiency

apricots 9238

cucumbers 7734

Cucurbita maxima 2203*Laelia cinnabarina* 7059*Litchi* 8090

mangoes 7325

mulberries 9277

olives 8100

Phaseolus vulgaris 5937-5938, 7745*Pyrus* 2968*Rhododendron* 4400*Vaccinium angustifolium* 7576

vegetables 10362

determination

Citrus 826

guavas 2717

fertilizers

apples 97, 1090, 1954-1955, 2874, 7478, 8280, 10166

Asparagus 10513

aubergines 8642

bananas 3648, 7274, 9008

Borassus flabellifer 1856

cabbages 4099, 9477, 10438

Calendula officinalis 4297*Capsicum* 3244, 4187, 5074-5075

carrots 5135

cashews 1793, 2680, 9940, 9942-9943, 10913

cauliflowers 10444

Chamaecyparis lawsoniana 2479

cherries 1135, 2934, 3818

chrysanthemums 9665

coconuts 5473

Codiaeum 7920

coffee 9029, 10925

Coriandrum sativum 3083, 3522, 4434, 5300, 7988

cucumbers 4137-4138, 6818-6819, 9508

Cucurbita moschata 3169*Cymbopogon winterianus* 7141*Cypripedium macranthum* 10704*Dahlia pinnata* 6123*Dieffenbachia* 7920*Dioscorea deltoidea* 2545*Elettaria cardamomum* 6260

figs 1142

Gaillardia pulchella 7874

garlic 3083, 6747

grapes 3052, 6704

guavas 4616

Hevea 4639

horticultural crops 7418

Hyoscyamus muticus 10785*Ilex vomitoria* 6190*Jasminum auriculatum* 7953

kiwifruits 2992-2993

kohlrabi 4993, 8531

lawns and turf 2423

leeks 9435

lettuces 4941, 4993-4994, 8531, 9461

Litchi 4540

mangoes 1827, 10954

Maytenus aquifolium 5341

melons 6416

Metroxylon sagu 979*Momordica charantia* 10481*Moringa oleifera* 8718

mushrooms 6065

Nymphoides indica 5215

okras 510, 3228

olives 3625

onions 3083, 4959, 4963, 5075, 5822, 7667, 8506, 8508

Panax pseudoginseng 7171

pawpaws 7345

peaches 2955, 4833

pears 2955, 8364

Phalaenopsis 7940

pineapples 933

Polianthes tuberosa 7906, 10663*Radermachera sinica* 4368

radishes 9493

Rhododendron 4399*Rosa damascena* 9835

roses 6200, 7960

Phosphorus cont.

fertilizers cont.

satsumas 10840-10841

spinach 1294, 4941, 6763, 9493

spinach beets 6773

Stevia rebaudiana 8051

strawberries 1210, 4885, 5731, 10295

Tagetes 6120

tea 11006-11007

Telfairia occidentalis 10469

tomatoes 510, 3276, 4223, 5125, 6925, 6927, 8672, 9595

Trichosanthes dioica 6815*Trigonella foenum-graecum* 2567, 4941, 7997, 10585*Vaccinium corymbosum* 3009

vegetables 3076, 4942, 10362

Ziziphus sativa 3692, 11016

metabolism

climate, grapes 3054

cultivars

cabbages 5866

grapes 3043

Hevea 937

plums 4857-4858

cultural methods

chrysanthemums 605

peaches 9291

development

carambolas 6464

plums 9326

diseases, okras 5991

disorders

apples 1122

mangoes 7331

environment, grapes 3043

fertilizers

apples 2885

cucumbers 6818

mandarins 5381

spinach beets 6773

growing media, *Cupressus**sempervirens* 9772

harvesting

Amaranthus mantegazzianus 6054*Banksia hookeriana* 7103*Hevea* 937, 5509in vitro culture, *Malus* 1103

intercropping, mangoes 10950

iron

Malus 1103*Phaseolus vulgaris* 422

irregular bearing, apples 2913

irrigation

oranges 4499

pomegranates 10898

tomatoes 3266

light, *Cupressus sempervirens* 9771maturity, *Asparagus* 6880

mycorrhizas

apples 10119

Asparagus 10512

cherries 1132

cucumbers 402-403

Cymbopogon winterianus 7141*Malus toringo* 10119*Tagetes erecta* 7013

tomatoes 8669

Zinnia elegans 7013

nitrogen

apples 6561

cabbages 4097, 5866

cauliflowers 4098

peaches 2954

pears 2954

Vaccinium ashei 2051

plant growth regulators

Pistacia lentiscus 2576

pomegranates 10898

plant nutrition, melons 9043

potassium

figs 170

mangoes 9979

peaches 2956

pears 2956

rare earth elements, satsumas 4507

ripening, plums 9326

rootstock scion relationships

apples 1940

cherries 4812

grapes 3975

Phosphorus cont.

metabolism cont.

rootstock scion relationships cont.

limes 10826

oranges 3584

peaches 3844

tomatoes 5092

salinity

Capsicum 8628

grapes 8459

guavas 9050

Phyllanthus emblica 2779

tomatoes 3266

Ziziphus rotundifolia 11018

seasonal variation

apples 4773

Asparagus 3226

grapes 3038

peaches 10213

Protea 741*Spondias purpurea* 2781*Vaccinium* 3008

walnuts 8391

Ziziphus sativa 11016

sex, spinach 8523

shade, grapes 1253

soil amendments, avocados 3571

soil compaction, *Cymbopogon winterianus* 7141soil pH, *Vaccinium* 1200

soil water, grapes 3054

soilless culture

tomatoes 507, 4221

Vaccinium 3008

temperature, vegetables 5772

zinc

Hibiscus rosa-sinensis 1648

lemons 7205

sour oranges 8947

plant nutrition

apples 1956, 4753, 10166-10167

Brassicaceae 7703

cabbages 1325

Capsicum 7775

carnations 3384

cashews 1794

cauliflowers 3143

celery 8710

cherries 1132

chrysanthemums 10619

Citrus limonia 8060*Clematis vitalba* 5283

coffee 3660, 5479

cucumbers 8568-8569

Cymbidium sinense 1602*Dactylorhiza* 2441

dates 7231

Gracilaria 10809

grapes 274, 1239, 9381

Gypsophila paniculata 6112*Ilex vomitoria* 6190*Laelia cinnabarina* 7059

lawns and turf 2423

lettuces 8535

Litchi 4540, 4544

mandarins 3588, 8060

mangoes 1827, 7325

melons 9043

Ocimum basilicum 8016

olives 863

onions 2133, 10382

oranges 6329

Panax pseudoginseng 6287, 7171-7172

pawpaws 9062, 9991

peas 5965

plums 4855

radishes 8559

Rosa damascena 7148

satsumas 10842

strawberries 5729, 10295

tomatoes 3282, 5101, 8669, 8676

Trigonella foenum-graecum 2566

tulips 7900

Vaccinium corymbosum 10283*Vaccinium macrocarpon* 8414*Ziziphus sativa* 3692

requirements

analysis

apples 8279

cabbages 4094

Phosphorus cont.

requirements cont.

analysis cont.

grapes 6704

peaches 2000

Spondias purpurea 2781

assessment, temperate fruits 2843

responses

beetroots 344

olives 5431

satsumas 8945

translocation, lettuces 7688

uptake

Andrographis 5332*Bactris gasipaes* 1855*Brassica* 1332*Capparis* 6244*Capsicum* 2279

cashews 9944

Cassia siamea 3540*Catharanthus roseus* 3541

cauliflowers 10444

cherries 1135, 6599

cucumbers 5018

Cymbidium sinense 1600

garlic 4024

grapes 267, 3041-3042

Hibiscus sabdariffa 9865

horticultural crops 8223

Impatiens 4307

kiwifruits 1187

lettuces 4996, 7688

Lilium leichtlinii 10518

mandarins 4505

mangoes 1827

melons 909

Metroxylon sagu 979*Moringa oleifera* 8718*Nyssa sylvatica* 6230

onions 5822, 6753, 9444

ornamental plants 3376

peaches 2001, 2950

Phaseolus vulgaris 422

plums 4856

Quercus rubra 6230

spinach 6763

strawberries 5729

tomatoes 3281, 7807

vegetables 1330, 3076, 4942

Ziziphus mauritiana 1853

utilization, disease control, cucumbers

1358

Photinia fraseri

disease control

Phytophthora 10067*Pythium* 10067**Photoperiodism***Achillea millefolium* 9677*Camellia* 3474*Capsicum* 8686

carrots 2324

Chinese cabbages 4087

chrysanthemums 2384

Clerodendrum thomsoniae 10732*Coreopsis grandiflora* 9683*Coreopsis lanceolata* 9683*Dendranthema boreale* 2384*Dendranthema zawadskii* 2384*Euphorbia coranstra* 9805*Eustoma grandiflorum* 4299*Gypsophila elegans* 5185*Kalanchoe marmorata* 683*Leucanthemum superbum* 9683*Leucanthemum vulgare* 4308*Origanum majorana* 3526*Perilla frutescens* 8038*Pharbitis nil* 1542, 3397*Phaseolus vulgaris* 5942*Senecio hybridus* 3420

tomatoes 8686

Photosynthates

biochemistry, celery 1488

composition, spinach 10404

metabolism

biochemistry

Amaranthus edulis 4258*Flaveria trinervia* 4258*Parthenium argentatum* 2575cultivars, *Capsicum* 10530

cultural methods

Capsicum 10530**Photosynthates cont.**

metabolism cont.

cultural methods cont.

raspberries 7570

mycorrhizas, satsumas 3587

physiology

cucumbers 6828

Spathiphyllum 689

plant training, apples 2872

seasonal variation, *Litchi* 1748

shade, raspberries 7570

temperature, peas 10505

water stress, apples 1102

translocation

algae 560

Amaranthus edulis 4258

apples 1099, 3794

Asparagus 4183*Atriplex spongiosa* 4258

aubergines 3247

Capsicum 8686

cauliflowers 4112

Chinese cabbages 2185, 4113

cucumbers 5031

Eleusine indica 4258*Flaveria trinervia* 4258*Hemerocallis citrina* 1552

kiwifruits 3911

peaches 4836, 9297

peas 454

tea 2765

tomatoes 3259, 3294, 4236, 7818,

8686

Photosynthesis

altitude, vegetables 8499

assessment

lettuces 3131

spinach 6765

tea 4646, 7362

biochemistry

Amaranthus edulis 4258

figs 6609

Flaveria bidentis 9853*Flaveria trinervia* 4258, 9853*Hedera helix* 7952*Laurus nobilis* 7121, 7952*Oncidium* 6178

oranges 6609

Phaseolus vulgaris 8594*Prunus laurocerasus* 7121

satsumas 3600

Schefflera arboricola 7050

spinach 4970, 4972, 4976, 7677,

8520, 10400-10401

CAM pathway

Acanthocereus colombianus 7258*Aptenia cordifolia* 10692*Dendrobium ekapol* 4377-4378*Kalanchoe daigremontiana* 5241-

5242

Kalanchoe fedtschenkoi 5243*Mesembryanthemum crystallinum*

3453-3454, 8827

Mokara 703*Opuntia ficus-indica* 5445, 7258

pineapples 935-936

Portulaca grandiflora 7923*Sedum aizoon* 10692

carbon dioxide

Agave deserti 5226*Agave salmiana* 8108

cabbages 4111

greenhouse crops 1037

lawns and turf 4355

Opuntia ficus-indica 8108

peas 10505

plants, reviews 7427

Schefflera arboricola 688

spinach 10401

spinach beets 4063

tomatoes 1462, 4234

climate, vegetables 8499

cold, tomatoes 3295

conferences 5543-5544

cultivars

Acer 6209

cabbages 5872

cashews 4589

coffee 7304

Coleus blumei 8821

lawns and turf 4355

Photosynthesis cont.

cultivars cont.

persimmons 5434

cultural methods

apples 8301

Brassica campestris 4110

cucumbers 401

grapes 3991

pears 8301

satsumas 8962

tea 2758

defoliation, *Capsicum* 8623

diurnal variation

grapes 10344

Hevea 2745

lettuces 3131

satsumas 832, 3600

Zingiber officinale 3518

drought

Phlomis fruticosa 5289

vegetables 8499

fertilizers

Citrus 4504

grapes 1249

Hibiscus rosa-sinensis 1648*Litchi* 1748

flooding

carambolas 11021

kiwifruits 214

Momordica charantia 10465

fruiting

grapes 3997-3998

mangoes 3679

herbicides, *Vicia faba* 4166

in vitro culture

apples 2865

Gardenia jasminoides 9807

roses 7095

Spathiphyllum floribundum 6163*Vitis* 8485

walnuts 2986

irrigation

coffee 7297

olives 10882

light

Amaranthus hypochondriacus 4301

apples 2871, 4779

avocados 3733

Bulbophyllum nilgherrense 7932

cabbages 4111, 5872

Camellia 5576*Capsicum* 1420

coffee 7305

cucumbers 3733

Eucalyptus 5576*Eucheuma denticulatum* 6296*Gomphrena globosa* 4301

grapes 1249, 8466

Litchi 1748

melons 4612

ornamental woody plants 709

Parthenium argentatum 2575

pawpaws 6437

peas 445, 9537

Phaseolus vulgaris 2234

satsumas 832

Schefflera arboricola 688

spinach 3733, 5576

Spirulina platensis 10816*Thymus vulgaris* 3530

tomatoes 5110

Ulva lactuca 6299*Vanda spathulata* 7932*Vicia faba* 5576

measurement

Acer 6209*Acer rubrum* 6211

almonds 3755

grapes 7128

horticultural crops 1053, 1912

Litchi 4541*Macadamia* 4541*Malva verticillata* 2559

mangoes 9055

melons 4612

oil palms 5500

pistachios 3755

Rosa canina 3499*Vaccinium macrocarpon* 3929*Washingtonia robusta* 7128

Photosynthesis cont.

models

- grapes 9400
- Litchi* 4541
- Macadamia* 4541
- roses 8863
- tomatoes 4233-4234

morphology, *Hevea* 9079

mycorrhizas

- satsumas 3587

- Ziziphus mauritiana* 5518

oxygen, satsumas 832

photoinhibition

- Capsicum* 9601
- Coleus blumei* 8821
- Cucurbita pepo* 5023, 10473
- Gardenia jasminoides* 9807
- grapes 3063, 5761, 10344
- horticultural crops 4695
- kiwifruits 215
- lawns and turf 6154
- Lilium* 8789
- ornamental woody plants 708
- peas 444, 5057, 5968-5969, 6864, 6866, 8608-8609
- Phaseolus vulgaris* 424, 2233
- satsumas 832
- spinach 708, 6864, 7678
- Spirulina platensis* 10816
- tomatoes 9601
- Viburnum odoratissimum* 7127

photoperiod

- Capsicum* 529, 744, 8686
- Dendrobium ekapol* 4377
- pineapples 935
- tomatoes 529, 8686

physiology

- almonds 3755
- apples 3793
- Capsicum* 529, 744
- carobs 7193
- cherries 8333
- kiwifruits 2994
- lawns and turf 4355
- lettuces 369-370
- Litchi* 1754
- longans 7237
- mangoes 4629
- olives 7250
- ornamental plants 5267
- peas 445-446, 5967, 5970-5971
- Peperomia metallica* 686
- Phaseolus vulgaris* 10492
- pistachios 3755
- Pyrus bretschneideri* 8369
- Spiranthes cernua* 7067
- tomatoes 529
- Vaccinium vitis-idaea* 6665

plant growth regulators

- apples 1080
- Forsythia intermedia* 2502
- Hosta plantaginea* 7875
- Malus* 1651

plant nutrition

- Cymbidium sinense* 1603
- Malus* 2889
- mulberries 9277
- Oenothera biennis* 3548
- peaches 5658
- tomatoes 10491

plant training

- apples 2871
- grapes 271

plant water relations, *Citrus* 3601

pollution

- peas 5964
- Phaseolus vulgaris* 3196, 9521

potassium, *Litchi* 4542

protected cultivation, ornamental plants

- 4275

reviews, tea 2764

ringing, loquats 4545

rootstock scion relationships

- apples 1101
- grapefruits 7196
- grapes 271, 1249
- kiwifruits 214

salinity

- Acanthocereus colombianus* 7258
- Annona squamosa* 6372
- grapefruits 8063

Photosynthesis cont.

salinity cont.

- mangoes 7326
- Opuntia ficus-indica* 7258
- oranges 8063
- roses 8860
- sapodillas 7349
- tomatoes 495

seasonal variation

- Bambusa multiplex* 2474
- grapes 3997-3998
- Ligustrum lucidum* 2474
- Syringa vulgaris* 3484
- Tipularia discolor* 7069
- Trachycarpus fortunei* 2474
- Vaccinium macrocarpon* 3929
- Viburnum odoratissimum* 2474
- Zingiber officinale* 3518

shade

- bananas 8120
- Capsicum* 8623
- coffee 9956
- Hevea* 2745-2746
- pawpaws 6437

soil amendments

- chrysanthemums 9664
- Phaseolus vulgaris* 6846

soil types, *Litchi* 1749

soilless culture, tomatoes 495, 10491

storage, lettuce 1318

temperature

- Alstroemeria* 10654
- apples 1101
- aubergines 5486
- avocados 3733
- Bambusa multiplex* 2474
- cabbages 5872
- Capsicum* 5486
- cucumbers 3733
- Ligustrum lucidum* 2474
- longans 5422
- mangoes 5422
- melons 5486
- peas 9537, 10505
- persimmons 5434
- Phaseolus vulgaris* 2234
- satsumas 832, 1737
- spinach 3733
- tomatoes 531, 4234, 5110
- Trachycarpus fortunei* 2474
- vegetables 8499
- Viburnum odoratissimum* 2474

topworking, satsumas 1719

translocation, tomatoes 7817

ultraviolet radiation

- peas 1395
- Phaseolus vulgaris* 4163

water stress

- apples 1102
- coffee 7304-7305, 9956
- Dendrobium ekapol* 4378
- durians 4652
- kiwifruits 9337
- Laurus nobilis* 7121
- Litchi* 1749, 3614
- passion fruits 7252
- pawpaws 6437
- peas 6865, 6868, 8610
- Prunus laurocerasus* 7121
- tomatoes 9603

waterlogging, strawberries 3015, 10301

weeds, tomatoes 6013

wind, bananas 3647, 7272

Phragmidium mucronatum

- Rosa damascena* 3527
- roses 7093

Phragmipedium, taxonomy, nomenclature 998***Phragmipedium klotzscheanum***, geographical distribution 1614***Phragmipedium schlimii***, breeding, interspecific hybridization 7064***Phyllanthus***, as weeds, ornamental plants 1522***Phyllanthus emblica***

- economics, India 7378
- in vitro* culture, propagation, micropropagation 11025
- salinity, responses 2779

Phyllocnistis citrella

- Citrus* 1727, 2607-2608, 6333, 8071, 8953
- lemons 5385
- limes 1733
- mandarins 8070
- oranges 2601, 10849

Phyllocoptes bougainvilleae, *Bougainvillea spectabilis* 1619***Phyllocoptes vitis***, grapes 289***Phyllocoptruta oleivora***

- Citrus* 1727, 3595, 6333
- oranges 2599-2600

Phyllonorycter blancardella

- apples 2904
- fruit crops 7479

Phyllonorycter mespilella, apples 9197***Phyllonorycter ringoniella***, apples 119, 2891***Phyllopertha horticola***, lawns and turf 10673***Phyllosticta***

- Magnolia grandiflora* 4392
- Zingiber officinale* 3516

Phyllosticta cycadina, *Cycas revoluta* 7967***Phyllosticta solitaria***, apples 2920***Physalis ixocarpa***, fruits, composition 875, 6369***Physalis pubescens***, seeds, composition 10305***Physalospora***, pears 8366***Physalospora piricola***, apples 5608***Physostegia virginiana***

- shoots, development, plant growth regulators 1555

- taxonomy, chemotaxonomy 4314

- weed control 2372

Phytelephas aequatorialis, pest control, *Caryobruchus chiriquensis* 3558**Phytoalexins**

- characterization, bananas 4583
- composition, Brassicaceae 5009
- metabolism, storage, celery 1490
- responses, carrots 7837

Phytochelators, metabolism, *in vitro* culture, *Rubia tinctorum* 8002**Phytochrome**

- biochemistry, tomatoes 3300
- physiology

- Adiantum capillus-veneris* 5220

- Anemia phyllitidis* 4362

- chicory 5845

- Dryopteris filix-mas* 4362

- peas 2252

- spinach 5841

Phytolacca americana

- fruits, biochemistry 6289
- leaves, biochemistry 7176

- plant, composition 8897

Phytolacca dodecandra

- altitude, responses 2563
- climate, Zimbabwe 2563
- cultivars

- assessment

- Ethiopia 9843

- Zimbabwe 9843

- irrigation, responses 9843

- manures 9843

Phytonemus pallidus, strawberries 5733***Phytophthora***

- Cassia obtusifolia* 10782
- coconuts 6394

- fruit crops, reviews 6513

- horticultural crops 10067

- raspberries 3921

- temperate fruits 4722

Phytophthora cactorum

- apples 4722, 6563, 10123
- strawberries 1211, 2066

Phytophthora capsici

- Capsicum* 476, 5077, 7776

- Piper nigrum* 749, 4440

Phytophthora cinnamomi

- avocados 1709

- reviews 6513

- Rhododendron* 3488

- Thryptomene calycina* 7126

Phytophthora citricola

- avocados 3572

- Rhododendron* 7957

Phytophthora citrophthora

- Citrus* 10846

- Phytophthora citrophthora** *cont.*
oranges 3488
- Phytophthora colocasiae**, mandarins 10847
- Phytophthora cryptogea**
Campanula carpatica 7872
Gerbera 3396, 7872
- Phytophthora drechsleri**, watermelons 9966
- Phytophthora fragariae**, strawberries 1212, 7582
- Phytophthora fragariae** *var. rubi*, raspberries 1194
- Phytophthora infestans**, tomatoes 3289
- Phytophthora meadii**, *Elettaria cardamomum* 753
- Phytophthora nicotianae** *var. parasitica*
bedding plants 6990
guavas 10943
mandarins 10847
oranges 3488
pineapples 4637
Rhododendron 3488
tomatoes 6019, 6039
- Phytophthora palmivora**
cocoa 6388
reviews 6513
- Phytophthora porri**, leeks 9430
- Phytoplasmas**
mulberries 5648
pears 8356
tomatoes 7808
- Phytoptus avellanae**, hazelnuts 1140
- Phytoseiulus macropilis**
control
of *Tetranychus urticae*
cucumbers 5902
strawberries 5902
- Phytoseiulus persimilis**
control
of Tetranychidae
cucumbers 2307
tomatoes 2307
of *Tetranychus kanzawai*
grapes 4925
strawberries 2067
of *Tetranychus urticae*
cucumbers 2831
Gerbera 7867
roses 727, 2831
strawberries 2831
- Phytotoxins**, composition, avocados 7191
- Picea abies**, pest control, *Pratylenchus penetrans* 8847
- Picea glauca**, *in vitro* culture, somatic embryogenesis 2478
- Picea pungens**, *in vitro* culture, somatic embryogenesis 2478
- Pieris**, planting stock, production, cultural methods 3466
- Pieris floribunda**, ornamental value 8883
- Pieris formosa**, ornamental value 8883
- Pieris japonica**
cultivars, ornamental value 8883
flowers
development
photoperiod 7979
plant growth regulators 7979
temperature 7979
forcing 7979
- Pieris rapae**, cabbages 386, 8496
- Pig manure**
utilization
fertilizers
Capsicum 473
tomatoes 3276
- Pigments** (see also Chlorophyll)
biochemistry, *Gardenia jasminoides* 750
characterization
Ajuga pyramidalis 9823
Amaranthus tricolor 4443
Gardenia jasminoides 10755
Macrotomia cephalotes 2524
composition
beetroots 4968
Gardenia jasminoides 10754
grapes 2100
Haematoxylum brasiletto 6254
Haematoxylum campechianum 6254
plants 53
extraction
beetroots 7675
carrots 7675
- Pigments** *cont.*
extraction *cont.*
Carthamus tinctorius 8895
Hippophae 2525
fluorescence, cucumbers 8583
metabolism
biochemistry, olives 865
climate, *Capsicum* 9560
fertilizers, beetroots 345
harvesting date, beetroots 345
light
cucumbers 7738
peas 7738
Portulaca grandiflora 4367
nitrogen, beetroots 4967
plant nutrition
cucumbers 8568-8569
peaches 5658
shade
Bulbophyllum nilgherrense 7932
Vanda spathulata 7932
soil types, *Datura metel* 9842
temperature, *Amaranthus lividus* 557
ultraviolet radiation, cucumbers 8582
production
cultural methods, *Hibiscus sabdariffa* 6297
in vitro culture
beetroots 344
plants, reviews 7129
- Pimelea ferruginea**
flowers
initiation
latitude 7980
temperature 7980
- Pimenta dioica**
air layering, seasons 7994
cultural methods, India 2517
fruits, development, plant growth regulators 7993
pest control, *Zeuzera coffeae* 3514
seeds, development, plant growth regulators 7993
- Pimpinella anisum**
in vitro culture, biochemistry 5304, 10752
salinity, responses 10746
seedlings, biochemistry, salinity 10746
seeds, composition 3521
weed control 1675
- Pimpinella brachycarpa**, shade, responses 3321
- Pineapples**
climate, requirements 7347
cropping systems, agroforestry 9135
cultivars, characteristics, Taiwan 9995
cultural methods, India 10066
disease control, *Phytophthora nicotianae* *var. parasitica* 4637
fertilizers
magnesium 3682
nitrogen 933, 2734
phosphorus 933
potassium 933, 2734
flowers
development, cultural methods 9996
initiation, plant growth regulators 2736, 8161
fruits
composition 878, 2737
quality
assessment 9997
cultural methods 9996
irrigation 5505
size, soil pH 3682
handling, techniques, Vietnam 4702
in vitro culture, organogenesis 7346
irrigation, water, salinity 5505
nutrients, requirements, analysis 7417
pest control
Dysmicoccus brevipes 6438
Rotylenchulus reniformis 934, 8159-8160
photosynthesis
CAM pathway 935-936
photoperiod 935
plant residues, utilization, feeds 9065
planting, spacing 2734
production
Brazil 6488
Papua New Guinea 4636
- Pineapples** *cont.*
products, pectins 1774
soil pH, soil amendments 3682
weed control 2735
- Pinellia pedatisecta**
in vitro culture
callus, growth 10798
organogenesis 10798
- Pinellia ternata**, reproduction, biology 7177
- Pinguicula**
ornamental value 5189
propagation, techniques 5189
- Pinus**
plant extracts, application, *Pleurotus ostreatus* 3370
seeds, harvesting, techniques 5588
species, edible species 2037
- Pinus mugo**, cultivars, clones 4386
- Pinus nigra**
plant water relations, assessment 2475
pot plants, bonsai 5260
- Piper**
cropping systems, intercropping 2689
taxonomy, chemotaxonomy 748
- Piper betle**
cuttings, cultural methods 8933
fertilizers, nitrogen 6298, 8048, 9866
nematicides, persistence 1705
soil water, drainage 7189
storage
disease control 3559
quality, fertilizers 8048
- Piper nigrum**
disease control, *Phytophthora capsici* 749, 4440
nutrients, cycling 9820
pest control
insects 3515
Lepidosaphes piperis 4441
Nematoda, reviews 7986
plant
biochemistry 4439
characteristics 7135
plant nutrition, nitrogen 4439
production, India, books 2788
production possibilities, Brazil 7995
seeds, composition 1052
soil amendments 9821
soil pH, responses 9820
- Pistachios**
cultivars
identification 6637
pest resistance 1892
pollination 8377
flowers
development
phenology 9316
sex 9316
fruits, development, assessment 7546
harvesting, techniques, mechanical harvesting 5588
in vitro culture
plant embryos 7545
propagation, micropropagation 2020
somatic embryogenesis 5681
inflorescences, development, anatomy 2021
irregular bearing, pruning 3901
irrigation, requirements, determination 6638
photosynthesis
measurement 3755
physiology 3755
plant nutrition, boron 7445
pollination, research 8377
pruning, systems, assessment 3901
rootstock scion relationships
growth 3900, 7544
salinity 2980
yields 7544
salinity, tolerance 2980
seeds, artificial seeds 7545
sorting, techniques 10247
- Pistacia** (see also Pistachios)
- Pistacia atlantica**
as rootstocks, pistachios 2980, 3900, 7544
pollination, research 8377
- Pistacia chinensis**
cuttings, rooting, seasonal variation 6231
pest control, *Eurytoma plotnikovi* 738

Pistacia integerrima, as rootstocks, pistachios 3900, 6638
Pistacia lentiscus, plant growth regulators, ethephon, responses 2576
Pistacia mutica
 pollination, research 8377
 seeds, development, embryology 2022
Pistacia terebinthus, as rootstocks, pistachios 3900, 7544
Pisum (see also Peas)
 taxonomy, chemotaxonomy 3194
Pittosporum, taxonomy, new taxa 1654
Pittosporum eugenioides
 plant growth regulators
 abscisic acid, responses 5290
 gibberellic acid, responses 5290
 paclobutrazol, responses 5290
Pittosporum tenuifolium
 disorders, leaf abscission 7119
 plant growth regulators
 ethephon, physiology 7119
 ethylene, physiology 7119
Pitymys ochrogaster, apples 1968
Pitymys pinetorum, apples 1968
Planococcus citri
Citrus 1727, 2609, 5386
 clementines 1730
 guavas 3674
Planotortrix octo
 apples 9194-9195
 peaches 9296
Plant
 biochemistry
 carbon dioxide
Opuntia ficus-indica 7257
 peas 5965
 tomatoes 1462
 cultivars, *Salvia officinalis* 10766
 cultural methods
 grapes 3966
 tomatoes 9604
 diurnal variation, *Opuntia ficus-indica* 5445
 fertilizers, lettuces 9461
 fluorine, peas 10503
 light
 algae 776-777
Panax pseudoginseng 1689
Thymus vulgaris 3530
 measurement, lettuces 7691-7692
 mycorrhizas, lettuces 9461
 plant growth regulators, *Parthenium argentatum* 780
 plant training, mangoes 9977
 provenance, *Crithmum maritimum* 8916
 rootstock scion relationships, peaches 5654
 salinity
 algae 777
 tomatoes 10550
 seasonal variation
Brassica 8554
Calliblepharis jubata 10806
Crithmum maritimum 8916
 grapes 4930
 strawberries 251
 tea 2766
 stress, plants 8225
 temperature
 cucumbers 7740
Isochrysis 5347
Nitzschia 5347
 ultraviolet radiation, cucumbers 8583
 canopy
 assessment
 grapes 6702
Laburnum anagyroides 6226
 climate, tea 7352
 development, grapes 268
 harvesting, apricots 6596
 light
 apples 3758, 4777, 7465
Capsicum 478
 coconuts 9948
 grapes 3062
 pears 3888
 tomatoes 532
 measurement, apples 4778
 microclimate, walnuts 5691
 models, grapes 3982

Plant cont.
 canopy cont.
 photosynthesis, tea 4646
 physiology
 grapes 3971
 tea 7362
 vegetables, reviews 1273
 plant training, grapes 6702
 temperature
 apples 9184
Ficus pumila 725
 transpiration, *Vaccinium macrocarpon* 8416
 colour, assessment, vegetables 5855
 development
 anatomy, *Cymbidium sinense* 6171
 apical dominance
 horticultural crops 10071
 peas 1396, 10507
 assessment
Actinidia kolomikta 4869
Andrographis paniculata 9847
 broccoli 1342
Citrus macrophylla 10827
Citrus volkameriana 10827
 cocoa 10917
Dahlia pinnata 5196
Eurya japonica 733
 grapes 2094-2095
 horticultural crops 4684
Juglans nigra × walnuts 5693
 kiwifruits 213
 lawns and turf 4354
Leonurus quinquelobatus 765
 lettuces 2167
Lilium leichtlinii 6885
Lilium longiflorum 5198
 limes 10827
Miltonia 9761
Pelargonium 8906
Phaseolus vulgaris 4160
Schisandra chinensis 4869
 sour oranges 10827
Valeriana officinalis 765
 watermelons 4611
 bacteria, *Zinnia elegans* 4319
 biochemistry
Castanea mollissima 167
Datura metel 1682
Eucommia ulmoides 2550
 lettuces 4083
 carbon dioxide
Agave salmiana 8108
Capsicum 2277, 3237
 lemons 2613
Opuntia ficus-indica 8108
 vegetables 9425
 chromium, tomatoes 511
 climate
 grapes 7609
Pelargonium 8906
 tea 9090
 cultivars
 chicory 4069
 grapes 9399
 persimmons 5434
Vaccinium ashei 3923
 cultural methods
 chrysanthemums 2382
Eucommia ulmoides 2551
 olives 8102
 strawberries 5721
 tomatoes 9604
 vegetables 321
 watercress 9497
 environment
Hypnea pannosa 4471
 tulips 4331
 fertilizers
Chamaecyparis lawsoniana 2479
 figs 2943
 grapes 10326
 guavas 4616
Ilex vomitoria 6190
Lilium leichtlinii 6885
Maytenus aquifolium 5341
 passion fruits 8106
 growing media
Anthurium 687
Forsythia intermedia 6219
Hibiscus syriacus 6219

Plant cont.
 development cont.
 growing media cont.
 ornamental plants 51
Prunus cistena 6233
Ravenia rivularis 687
 histology, *Adiantum capillus-veneris* 8815
 irrigation
 peaches 6616
Vaccinium ashei 3923
 light
 apples 91
Brassavola nodosa 9759
 Chinese cabbages 4108
Coleus 10071
Pharbitis nil 10071
Phaseolus vulgaris 2234, 9528
Stevia rebaudiana 5355
Thymus vulgaris 4445
 tomatoes 496
 models
Brassica chinensis 8553
 Chinese cabbages 4108, 5008
 grapes 9408
 horticultural crops 9134
 lettuces 2167
 mangoes 9977
Opuntia engelmannii 7048
 radishes 5882
 roses 6199, 6204-6205
 strawberries 10300
 tea 963
 tomatoes 533, 3706, 5109, 5115
 watermelons 2702
 morphology
Cinnamomum camphora 5282
Cinnamomum glanduliferum 5282
Cinnamomum japonicum 5282
Helleborus 10657
Oplismenus hirtellus 3457
Tradescantia fluminensis 3457
 mulching
 aubergines 3249
 watermelons 2702
 mycorrhizas
 plums 203
Vicia faba 5954
 phenology
Apios americana 6874
Brassavola nodosa 9759
 grapes 2094-2095, 9408
 hops 4447
Hylocereus undatus 2777
 mangoes 4624
Origanum vulgare 2561
 ornamental woody plants 10717
Ribes 3004
Spondias purpurea 2781
 strawberries 3014
Tussilago farfara 2568
 vegetables 4015-4016
Viex negundo 5345
 photoperiod
Amaranthus caudatus 3324
Camellia 3474
 celery 905
 melons 905
Miltonia 9761
 pot plants 10611
Stevia rebaudiana 5355
 strawberries 3014
 tomatoes 905
 phyllotaxy, passion fruits 10889
 physiology
 apples 1970, 3706
 chicory 10407
 fruit crops 8233
 kiwifruits 3910
Opuntia engelmannii 7048
 ornamental woody plants, reviews 3472
 peaches 3706
 walnuts 3706
 plant extracts, cucumbers 416
 plant growth regulators
Aralia cordata 1495
 aubergines 8642
Dahlia pinnata 8785
Forsythia intermedia 2501
 guavas 4616

- Plant cont.**
 development cont.
 plant growth regulators cont.
 Hibiscus sabdariffa 6297
 Lagerstroemia 2468
 Malus hupehensis 1105
 mangoes 9978
 onions 3093
 peaches 2949
 Phaseolus vulgaris 9528
 Pittosporum eugenioides 5290
 watermelons 2705
 plant nutrition
 Brussels sprouts 7707, 10440
 leeks 10440
 lettuces 1312
 Ocimum basilicum 10761
 plant water relations, *Narcissus* 9707
 planting date, Chinese cabbages 6783
 propagation, roses 3492
 protected cultivation
 oranges 10838
 watermelons 2702
 provenance, *Maackia amurensis* 4422
 pruning, mangoes 3676
 rootstock scion relationships
 apples 4740, 10101
 grapes 7602-7603
 oranges 10829
 salinity
 Gaillardia pulchella 7007
 onions 3092
 peaches 3849, 3857, 5660
 tomatoes 10550
 seasonal variation
 Calliblepharis jubata 10806
 Hypnea pannosa 4471
 mandarins 4505
 seasons
 lawns and turf 6139
 Narcissus 9707
 seed treatment, onions 3089
 sex, *Simmondsia chinensis* 4467
 shade, vegetables, reviews 1273
 shading, tomatoes 496
 soil amendments, *Phaseolus vulgaris* 6845
 soil pH
 pears 8363
 plums 8363
 soil types
 Datura metel 9842
 Eucommia ulmoides 2551
 solar radiation, broccoli 6791
 spacing
 apples 10101
 Hevea 9071
 temperature
 broccoli 6791
 Camellia 3474
 cauliflowers 5861
 celery 905
 Chinese cabbages 4108, 5008
 Coleus forskohlii 6285
 grapes 9399, 10320
 lawns and turf 10676
 lemons 2613
 melons 905, 6419
 Narcissus 9707
 peaches 10212
 Pelargonium hortorum 4289
 Petunia 4293
 Phaseolus vulgaris 2234
 pot plants 10611
 strawberries 3014
 tomatoes 905, 5115
 vegetables 9425
 water stress
 apples 5605
 grapes 10326
 peaches 6616
 height, assessment, cashews 7281
 injuries
 rootstock scion relationships, carambolas 5523
 surveys, roadside plants 2463
 ultraviolet radiation, horticultural crops 8207
 mechanical properties, measurement, vegetables 9158
- Plant cont.**
 quality
 cultural methods, vegetables 28
 fertilizers
 kohlraabi 8531
 lettuces 2174, 8531
 temperature, lettuce 2174
 sex
 biochemistry, *Asparagus* 9546
 determination, *Asparagus* 9546
 physiology, kiwifruits 2994
 plant growth regulators, cucumbers 4153
 size
 assessment
 hazelnuts 3825
 ornamental woody plants 6184
 thinning, techniques, pecans 198
Plant extracts
 utilization
 fertilizers
 Cucurbita pepo 10490
 Hibiscus rosa-sinensis 6224
 Phaseolus vulgaris 10490
 fungicides
 Azadirachta indica 3058
 garlic 3213
Plant growth regulators
 abscisic acid
 biosynthesis, oranges 7216
 composition
 apples 10130
 lemons 10860
 Prunus spachiana 6234
 determination
 apples 8302
 Citrus 5389
 Mesembryanthemum crystallinum 6161
 Pharbitis nil 6100
 satsumas 4532
 in vitro culture
 Anastatica hierochuntica 1679
 Aronia arbutifolia 4410
 blackberries 6653
 Catharanthus roseus 4412
 chicory 1302
 leeks 4952
 mangoes 2721, 7322, 7328
 melons 6812
 Petastites japonicus 8541
 radishes 1345
 temperate fruits 10089
 Trachyspermum ammi 4442
 Trapa 6059
 Welsh onions 5833
 metabolism
 Allium wakegi 3103
 apples 131, 1080
 Aranda 5254
 Asparagus 7764
 bananas 3651
 Capsicum 2282
 carrots 2324
 Citrus 5389
 Citrus tamarana 10852
 Clausena lansium 4567
 clementines 8963
 cucumbers 1369, 1371, 4156, 7740, 10478
 grapefruits 7210
 grapes 260, 292-293, 3067, 8482
 melons 9969
 Mentha arvensis 5314
 Mesembryanthemum crystallinum 6161
 olives 3624
 oranges 838, 7214, 8074
 ortaniques 8074
 peaches 3849, 3857
 Pharbitis nil 6100
 Phaseolus vulgaris 5941
 plums 9324
 satsumas 3605, 8962-8963, 10861
 tea 8167
 tomatoes 2314, 4238, 5118
 Vaccinium ashei 8417
 Vanda 5254
 Vicia faba 4170
 walnuts 10256
 Ziziphus sativa 7371
- Plant growth regulators cont.**
 abscisic acid cont.
 physiology
 lettuces 3124
 Leucospermum 3508
 Phaseolus vulgaris 2236
 tomatoes 4206
 responses
 avocados 6308
 beetroots 10397
 Chamaelium uncinatum 10731
 chicory 1302
 cucumbers 5848, 7740
 Cucurbita pepo 4142
 globe artichokes 5843
 grapes 9410, 10347, 10351
 Hippeastrum vittatum 2413
 horticultural crops, reviews 8208
 Jasminum grandiflorum 5263
 lettuces 5848
 Litchi 2637
 longans 2637
 Malus 1651
 mangoes 7320, 7336
 Mesembryanthemum crystallinum 3454
 onions 3093
 Phaseolus vulgaris 3200
 Pittosporum eugenioides 5290
 radishes 4125, 9494
 Rehmannia glutinosa 8040
 roses 4407, 7097
 strawberries 8429
 tea 6457
 temperate fruits 10089
 Tropaeolum majus 623
 Vicia faba 6855
 watermelons 1811
 translocation
 cucumbers 5919
 Pharbitis nil 6100
 tomatoes 5112
 AC 263,222, responses, lawns and turf 9721
 ACC
 determination, tomatoes 10559
 in vitro culture
 Albizia julibrissin 5277
 Heliconia psittacorum 10656
 Lavandula intermedia 3258
 radishes 7716
 tomatoes 3258
 metabolism
 apples 131, 3803, 8305, 9217
 avocados 8936
 carnations 1535, 6090
 grapes 9402
 kiwifruits 222, 2041
 mangoes 9058
 melons 4615, 9969
 passion fruits 8990
 peaches 3877, 8305, 10222
 Penunia 608-609
 Pyrus 10237
 tomatoes 2312, 5121, 10222
 physiology
 Dendrobium 6175
 tomatoes 5122
 responses
 Cymbidium 5255
 grapes 9402
 kiwifruits 540
 lettuces 2158
 tomatoes 539
 tulips 7901
 adenine, responses, coffee 902
 alcohols
 responses
 aubergines 8642
 horticultural crops 1031
 p-aminobenzoic acid, responses, *Stevia rebaudiana* 8051
 aminobenzotriazole, in vitro culture, carnations 10612
 aminoisobutyric acid, responses, *Cucurbita maxima* 5032
 aminooxyacetic acid
 responses
 carnations 1536, 7864
 kiwifruits 7561
 roses 4406, 6207

Plant growth regulators cont.

ancymidol

responses

melons 2701

peas 5058

Rehmannia glutinosa 8040*Viola odorata* 9838

ascorbic acid, responses, strawberries

3017

auxins

in vitro culture*Boronia* 1640

hyacinths 2403

Matthiola incana 8777

peas 1389

pistachios 2020

radishes 8561

strawberries 4886

Trapa 6059

metabolism

grapes 292, 10314

peaches 3849, 3857

plants 3728

physiology

carnations 9658

Cucurbita pepo 5909

responses

apples 6547, 7490

coffee 6399

horticultural crops, reviews 8208

hyacinths 2403

peas 1401, 5982

pineapples 8161

tomatoes 1464, 6028

AVG

in vitro culture*Albizia julibrissin* 5277*Heliconia psittacorum* 10656*Lavandula intermedia* 3258

radishes 7716

tomatoes 3258

responses

apples 131

Cymbidium 5255, 10699

kiwifruits 540

tomatoes 540, 5093, 7795

benzyladenine

composition

oil palms 10981

Sophora 8884*in vitro* culture*Actinidia arguta* 1185*Aegle marmelos* 8997, 9846*Albizia julibrissin* 6213

Aloaceae 4360

Aloe barbadensis 8819*Annona muricata* 7263*Anthurium* 1548*Antirrhinum* 4280

apples 3771, 8259

apricots 8325

Armoracia rusticana 3511*Artemisia absinthium* 9828*Artemisia annua* 9848*Artemisia pallens* 752*Asparagus densiflorus* 3449

avocados 794

Babiana 7026

bananas 3646, 7271

Bauhinia variegata 5279*Boehmeria nivea* 9840*Boronia* 1640*Bowiea volubilis* 10778*Brassica chinensis* 3138*Bunium persicum* 8005

cabbages 10429

Caladium bicolor 10681

calamondins 9880

Camptotheca acuminata 8911*Capsicum* 471, 1412, 2275

carambolas 7372

Carica pubescens 9061

carnations 596-597, 2378, 7862

carrots 9621

cashews 8129

Catharanthus roseus 761-762,

7161

Chaenomeles japonica 5696

Chinese cabbages 376

Citropsis schweinfurthii 10836*Cnidium officinale* 9851**Plant growth regulators cont.**

benzyladenine cont.

in vitro culture cont.

coffee 3656, 9026

Crateva religiosa 5337*Crinum macowanii* 4333

cucumbers 5893, 6811

Cyclamen 9694*Cymbidium pendulum* 7935*Cymbopogon* 8902*Cymbopogon flexuosus* 6259

dates 5413

Dendrobium 2444, 7936*Dianthus chinensis* 1532*Drosera rotundifolia* 5338*Ensete ventricosum* 6057*Eucomis* 4334*Eucommia ulmoides* 2552

feijoas 8971

Ficus benamina 7046

garlic 1279, 2120, 4021, 7656

Garrya elliptica 6222*Gerbera* 8750, 9666*Gladiolus* 1563, 3429*Glehnia littoralis* 8713

grapes 1228, 3955-3957, 3959,

4907-4908, 8453

Hevea 2742, 10992*Hibiscus syriacus* 10736*Hippophae rhamnoides* 7592*Hosta fortunei* 8775

hyacinths 2403, 10645

Hypoxis angustifolia 7031*Jatropha curcas* 8930

kiwifruits 2988

kumquats 6315

Lachenalia 1576*Lagerstroemia indica* 1650

leeks 4952

Liatris spicata 6137*Lilium* 2405*Lilium japonicum* 646*Lilium leichtlinii* 2405*Limonium sinuatum* 4309*Luculia* 2510*Magnolia delavayi* 7086*Magnolia soulangiana* 9778

mandarins 9880

mangosteens 6467

Matthiola incana 8777*Maytenus ilicifolia* 3547*Melissa officinalis* 6264

melons 6812

Mentha 5312*Moringa oleifera* 7169*Munronia pumila* 10792*Murraya koenigii* 4437*Murraya paniculata* 10739*Nelumbo* 8814*Nephrolepis exaltata* 5222

oranges 7198, 9880

Orchidaceae 7055

Paeonia anomala 4313

passion fruits 4555

peaches 177, 3850, 10211

peaches × almonds 177

peas 6858

Petroselinum crispum 6249, 6268*Phalaenopsis* 4383*Phaseolus vulgaris* 2224*Phlox paniculata* 5188*Phyllanthus emblica* 11025*Pinellia pedatisecta* 10798

pistachios 2020, 5681

Plantago ovata 9859*Plumbago indica* 7178*Pouteria lucuma* 10025*Psophocarpus tetragonolobus*

6875

Ptilotus exaltatus 7012

pummelos 6317

radishes 1345, 7716

raspberries 5706

Rauvolfia micrantha 8926*Rosa multiflora* 2485

roses 1632, 8857

Rudbeckia hirta 5191*Shepherdia rotundifolia* 10743*Solanum viarum* 10800*Solenostemon rotundifolius* 8721**Plant growth regulators cont.**

benzyladenine cont.

in vitro culture cont.*Spathiphyllum floribundum* 690,

4369

Stachys sieboldii 5145*Stapelia semota* 5246*Stokesia laevis* 621

strawberries 3938

Stryphnodendron polyphyllum

3551

Syngonium podophyllum 5247

tomatoes 2291-2292, 4207, 4244

Trapa 6059*Trichopus zeylanicus* 1693

tropical crops 4678

Vanda 7945*Vismia guianensis* 2570*Vitis* 4908, 10317

watercress 10460

watermelons 1813

Welsh onions 343, 4050, 5833

Yucca aloifolia 9749*Zingiber officinale* 2523, 5325,

8889

Ziziphus mauritiana 5517injuries, *Nymphaea* 2429

physiology

lettuces 3124

Leucospermum 3508

responses

Acacia 9793

apples 1072, 3782, 5603, 7469,

8275, 9182, 9190, 10103,

10118

Asparagus 7764*Barleria cristata* 5278

broccoli 3153, 10456

Calanthe discolor 1598

carnations 6089

carrots 5132

Citrullus colocynthis 6279*Coreopsis grandiflora* 1555

cucumbers 1369, 5028-5029

Cucurbita pepo 5030*Cyclamen persicum* 3428

grapes 2085

guavas 9971, 10938

Gypsophila paniculata 4303*Hibiscus rosa-sinensis* 4419*Hippeastrum vittatum* 2413

hyacinths 2403

Iris 6128*Kalanchoe marmorata* 683

kiwifruits 2040

lettuces 10410

mangoes 7333, 8151

Mesembryanthemum crystallinum

3454

Nymphaea 2429*Opuntia ficus-indica* 9921

oranges 2621, 5365

ornamental woody plants 2468

Paeonia suffruticosa 7117-7118*Panax quinquefolius* 10794

pears 9190, 10103, 10118, 10240

peas 6860, 6869

persimmons 2657

Physostegia virginiana 1555*Pimenta dioica* 7993*Psidium chinensis* 10938*Rauvolfia serpentina* 8039*Rehmannia glutinosa* 8040*Rhododendron* 6192

roses 4406

satsumas 3604

Sophora 8884*Strelitzia reginae* 1557

tangelos 2618

tea 6457

Thladiantha grosvenorii 8043

tomatoes 10570

walnuts 10255

watermelons 8144

translocation, cucumbers 5919

Biozyme, responses, tea 2765

books 8173

brassinosteroids

biosynthesis, *Catharanthus roseus*

7160

Plant growth regulators cont.

brassinosteroids cont.

composition

- Erythronium japonicum* 6135
- Lilium longiflorum* 4325
- peas 8612
- rhubarb 467

in vitro culture, tomatoes 535

metabolism, tomatoes 535, 4239

responses

- cucumbers 5031
- horticultural crops, reviews 8208
- tomatoes 5097

calcium carbide, responses, pineapples 2736

carbaryl

- application date, apples 4787, 10132-10133

responses

- apples 128, 1107-1108, 7491, 8277, 9200, 10131, 10133-10134, 10139-10141
- pomegranates 3632-3633

chlormequat

application date

- pears 1162, 10233
- sapodillas 10003

application methods, poinsettias 1627, 3485

in vitro culture, grapes 1227

responses

- Barleria cristata* 5278, 7104
- Callistephus chinensis* 3406
- Capsicum* 8638
- cashews 5464
- cucumbers 9517
- Dahlia pinnata* 1561
- Digitalis lanata* 4458
- Digitalis purpurea* 4458
- Gaillardia* 7006
- garlic 5782, 9434
- grapes 299
- Litchi* 1747, 4539, 7236, 8089
- Malvaviscus arboreus* 5288
- Momordica charantia* 404
- peaches 6624
- pears 1162
- Pharbitis nil* 9670
- pomegranates 1767, 10898
- Rehmannia glutinosa* 8040
- Rhododendron simsii* 6193
- satsumas 835
- Tanacetum cinerariifolium* 7153
- Trigonella foenum-graecum* 5324

4-chloro-o-tolyl oxyacetic acid, responses, *Citrus* 4705

chlorophenoxyisobutyric acid, responses, apples 6547

chlorpromazine, *in vitro* culture, roses 8857

chlzolinate, responses, strawberries 245

cimetacarb, responses, chrysanthemums 4285

cinchomeric acid, responses, radishes 7720

conferences 7399

4-CPA

in vitro culture, peas 1389

responses

- cucumbers 1369
- apples 7490
- tomatoes 4211, 10562

cycloheximide, responses, mangoes 922

cyclopropene

responses

- bananas 5575
- Campanula carpatica* 5575
- carnations 5575
- peas 5575
- tomatoes 5575

cytokinins

composition

- coconuts 9024
- oil palms 10981
- Sophora* 8884

in vitro culture

- garlic 7656
- hyacinths 2403
- kiwifruits 2988
- Matthiola incana* 8777
- Murraya paniculata* 10739

Plant growth regulators cont.

cytokinins cont.

in vitro culture cont.

- oil palms 5501
- peas 1389
- radishes 8561
- strawberries 4886
- Trapa* 6059

metabolism

- apples 1080
- Aranda* 5254
- carrots 2324
- Lilium davidii* 4326
- Mentha* 1674
- peas 2245
- plums 9324
- radishes 7717
- Tephrosia purpurea* 10801
- tomatoes 8685
- Vanda* 5254
- Ziziphus sativa* 7371

physiology

- carnations 9658
- Leucospermum* 3508
- oil palms 5501
- peas 5977
- spinach 5977

responses

- Alstroemeria* 5205
- apples 1953, 10131
- avocados 6308
- horticultural crops, reviews 8208
- hyacinths 2403
- kiwifruits 10270
- pears 10131
- peas 6860
- Sophora* 8884
- tomatoes 6028
- Vaccinium ashei* 7577
- Vaccinium corymbosum* 7577

2,4-D

in vitro culture

- Alstroemeria* 654
- Armoracia rusticana* 3511
- Artemisia pallens* 752
- Asparagus densiflorus* 8820
- Bauhinia variegata* 5279
- Boehmeria nivea* 9840
- Boerhavia diffusa* 3538
- Bowiea volubilis* 10778
- Bunium persicum* 8005
- Caladium bicolor* 10681
- Capsicum* 6898
- Carica pubescens* 9061
- carnations 1533
- carrots 9621
- Chinese cabbages 8546
- cocoa 5469
- coconuts 2690
- coffee 3656, 4601, 7309, 9026
- Crinum macowanii* 4333
- cucumbers 3168, 5893, 6836
- Cucurbita maxima* 5920
- Cucurbita pepo* 1353
- Cyclamen* 9694
- Cyclamen persicum* 631
- Cymbopogon* 8902
- Cymbopogon flexuosus* 6259
- dates 849, 5413
- Dendrobium* 2444
- Dianthus chinensis* 1532
- Encephalartos cycadifolius* 7109
- garlic 1279, 2120
- Glehnia littoralis* 8713
- grapes 3956, 3959
- Hibiscus syriacus* 10736
- hyacinths 2403
- lawns and turf 665
- leeks 4952
- Matthiola incana* 8777
- melons 6812
- mulberries 4822
- Munronia pumila* 10792
- pawpaws 10985
- peaches 3850
- peas 1389
- persimmons 9915
- Petroselinum crispum* 6249
- Phyllanthus emblica* 11025
- Pinellia pedatisecta* 10798
- Polianthes tuberosa* 6138

Plant growth regulators cont.

2,4-D cont.

in vitro culture cont.

- radishes 1345, 8561
- roses 9783
- Solenostemon rotundifolius* 8721
- strawberries 3938
- Vaccinium macrocarpon* 3930
- watermelons 9040
- Welsh onions 343, 5833
- Yucca aloifolia* 9749

physiology, pawpaws 2732

responses

- apples 151, 1100, 6547
- Capsicum* 6896
- cashews 9940, 9942
- clementines 8075
- Costus speciosus* 2542
- Cucurbita maxima* 5913
- garlic 333
- guavas 7318
- hyacinths 2403
- Lantana camara* 10737
- lemons 846, 1714
- limes 8065
- Litchi* 7236
- loquats 1714
- mandarins 4518-4519, 8075
- oranges 4525
- peas 5974
- persimmons 5437
- pomegranates 1767
- sapodillas 9085

3,4-D, *in vitro* culture, *Hevea* 2742

daminozide

determination, apples 1982

in vitro culture, *Petasites japonicus* 8541

residues, apples 1982

responses

- Antirrhinum* 6087
- Aster novi-belgii* 1549
- Barleria cristata* 5278
- Bougainvillea spectabilis* 7075
- Callistephus chinensis* 3406
- chrysanthemums 4285
- Dahlia pinnata* 1561, 8785
- Gaillardia* 7006
- guavas 10947
- Hydrangea macrophylla* 8850
- Lochroma cyaneum* 4420
- Jasminum grandiflorum* 5263
- peaches 6624
- Pieris japonica* 7979
- radishes 9494
- Rhododendron obtusum* 5266
- Tanacetum cinerariifolium* 7153
- Ziziphus mauritiana* 967

dicamba, *in vitro* culture, peaches 3850

dichlorprop

application date, apples 132

responses

- apples 131-132, 7490
- Citrus* 4705
- clementines 4524, 5398
- kiwifruits 10267
- stone fruits 4705

dihydrozeatin

composition, oil palms 10981

metabolism

- carrots 2324
- chicory 10407
- walnuts 10256

dihydrozeatin riboside

composition, oil palms 10981

in vitro culture, *Anastatica hierochuntica* 1679

metabolism

- chicory 10407
- walnuts 10256

dikegulac

injuries

- apples 9190
- pears 9190

responses

- Luffa acutangula* 3189
- Momordica charantia* 3189
- Murraya paniculata* 7115

3,3-dimethylcyclopropene

responses

- bananas 5575

Plant growth regulators cont.

3,3-dimethylcyclopropene cont.
responses cont.

Campanula carpatica 5575
carnations 5575
peas 5575
tomatoes 5575

endothal, responses, apples 127-128
epibrassinolide

responses

cucumbers 413, 2211
watermelons 2705

ethephon

application date, melons 6420

in vitro culture

Albizia julibrissin 5277
blackberries 6653
radishes 7716

injuries

Citrus latifolia 10853
oranges 9893

physiology

lettuces 3124

Pittosporum tenuifolium 7119

responses

apples 128, 1112, 1115, 7472, 9204

bananas 6382, 7276

Calanthe discolor 1598

Capsicum 7778

carrots 5132

cashews 5464, 9940, 9942

chrysanthemums 10617

Citrus latifolia 10853

coffee 902

Costus speciosus 2542

cucumbers 4153, 6026, 9517

Cucurbita pepo 4154

Cymbidium 5255

dates 5415

Gerbera 6097, 8757

Ginkgo biloba 9774

Gladiolus 637, 8788

grapefruits 1740, 10858

grapes 272, 10351

guavas 10944-10945

Hevea 3683, 9082

kiwifruits 540, 2999

Lantana camara 10737

lawns and turf 3442

Liquidambar styraciflua 9774

Litchi 8089

mandarins 4518-4519, 7217, 7222

Matthiola incana 6114

melons 6420

Momordica charantia 404

onions 10390, 10392, 10394

Opuntia ficus-indica 5447

oranges 842, 7211, 9893, 10858

Paeonia suffruticosa 7118

peaches 4827, 6624, 8353

pears 2972

persimmons 5437

pineapples 2736, 8161, 9996

Pistacia lentiscus 2576

Plumeria rubra 7981

plums 9325

pomegranates 1767

Pyrus pyrifolia 2972

Rhipsalidopsis gaertneri 1594

roses 4406

sapodillas 9085, 10999

satsumas 8964

Syzygium jambos 3696

tamarillos 6368

Tanacetum cinerariifolium 7153

tea 11002

tomatoes 539, 6026

Ziziphus mauritiana 967

reviews, fruit crops 2836

ethychlozate

responses

mandarins 7217

oranges 10866

satsumas 8076, 10866

ethylene

biosynthesis

apples 9221

Cucurbita maxima 5032

melons 4614

peas 447

Plant growth regulators cont.

ethylene cont.

biosynthesis cont.

plants 3730

determination, horticultural crops 5577

in vitro culture

Albizia julibrissin 5277

Lavandula intermedia 3258

peaches × almonds 3851, 4831

radishes 7716

tomatoes 3258

metabolism

Amaranthus lividus 557

Antirrhinum 6086

apples 131, 134, 1115, 1117,

1977, 2912, 3803, 4743,

4800, 5626, 8305, 9201,

9210, 9212, 9217, 9221

apricots 10184

avocados 814-816, 8936

bananas 887, 3652, 8124

blackberries 4875, 6656

broccoli 7712, 8556

carnations 1535, 3385, 5168,

6091, 7864

carobs 10821

Chamelaucium uncinatum 10730

cherries 4814

chicory 6776

chrysanthemums 605, 10617

cucumbers 6026, 6810

Cymbidium 5255, 10699, 10701

Dendrobium 10705

durians 2775

fruit crops 10080

Gladiolus 637

grapefruits 10862

grapes 9402

Grevillea 9808

guavas 10944

Gypsophila paniculata 10629

Heliconia psittacorum 10656

Ixia 659

kiwifruits 220, 222, 2041, 7561, 10273-10275

Lilium 8790

mangoes 9058

melons 4614-4615, 9047, 9969

Mirabilis jalapa 4311

oranges 842

Paeonia 3419

peaches 178, 3877, 5669, 8305, 9299, 10222

pears 187, 192-193, 1167, 4842

peas 10504

Petunia 608-609

Pharbitis nil 7868

plants 3728

plums 10253

Pyrus 10237

Pyrus bretschneideri 8374

Pyrus pyrifolia 2016

Pyrus ussuriensis 10242

roses 5168

strawberries 2068, 9374

tomatoes 1473, 2312, 2318, 5121, 6026, 6942, 6946, 6950,

7795, 7831, 9614, 10222,

10565, 10568-10570

tulips 7901, 9709

vegetables 10080

physiology

apples 7501-7502, 9204

bananas 7277, 7428, 8502

Capsicum 5080, 5663

carnations 6092, 7428, 7502, 9658

Dendrobium 6175

fruit crops, reviews 4698

Gerbera 6097

Gladiolus 7892

horticultural crops 5574, 5577

reviews 5573

kiwifruits 540

Mokara 703

passion fruits 8990

peaches 5663

peas 5976, 7428

Petunia 10624

Plant growth regulators cont.

ethylene cont.

physiology cont.

Phalaenopsis 6179, 7063, 9763, 10713

Phaseolus vulgaris 5976, 7428

Pittosporum tenuifolium 7119

Platycerium coronarium 7039

Rubus 230

Sandersonia aurantiaca 4338

tomatoes 540, 5093, 6032, 7428

vegetables 8502

responses

Antirrhinum 6087, 7859

bananas 887, 5575, 6384, 7276, 8502

Begonia elatior 7859

broccoli 8556

Campanula carpatica 5575

Capsicum 9682

carnations 5575, 6090, 7859,

7864

carrots 7841

Chamelaucium uncinatum 1643

cucumbers 7742

Digitalis lanata 4458

Digitalis purpurea 4458

grapefruits 846

guavas 2718

horticultural crops, reviews 8208

kiwifruits 3915

lemons 846

lettuces 7694, 9466, 10409

mandarins 7222

mushrooms 565

oranges 3606

peaches × almonds 4831

pears 5679, 8371-8372

peas 5575

Phaseolus vulgaris 8599

Phlox paniculata 2397

radishes 6803

Rhipsalidopsis gaertneri 1594

strawberries 258, 2069

Thalictrum delavayi 10635

tomatoes 539, 3304, 4240, 5575, 6032, 6037, 7830

vegetables 8502

fenoprop, responses, satsumas 8964

flurprimidol

responses

Hydrangea macrophylla 8850

ornamental plants 8740

ornamental woody plants 2468

Rhododendron simsii 6193

Viola 10636

forchlorfenuron

application date, apples 7506

in vitro culture

apricots 8325

persimmons 9915

responses

apples 1104

cucumbers 1369

grapes 2085, 7636

horticultural crops 7429

kiwifruits 220, 6645

mangoes 10966

olives 862

persimmons 2657

radishes 7718

tomatoes 10562

watermelons 2710, 8144

Fulmet, responses, grapes 3989

fusicoccin

physiology

spinach 6766

Vicia faba 6766

responses, horticultural crops, reviews 8208

gibberellic acid

application date

grapes 2102

Limonium 7008

pears 7535

composition, peas 1400

<

Plant growth regulators cont.

gibberellic acid cont.

in vitro culture cont.

Capsicum 471, 6898
Crateva religiosa 5337
Cymbopogon 8902
Cymbopogon flexuosus 6259
Dendrobium 2444
 fennel 1492
 grapes 3957, 3959, 4907
 hyacinths 6127
Lagerstroemia indica 1650
Lilium japonicum 646
 melons 1812
Moringa oleifera 7169
 plums 2030
Rosa multiflora 2485
 roses 8857
 spinach 3106, 4969
 tomatoes 2292
Trachyspermum ammi 4442
 watermelons 1813
Zingiber officinale 5325

metabolism

apples 1080
 bananas 3645
 grapefruits 7210
 oranges 8074
 ortaniques 8074
Ziziphus sativa 7371

physiology

lettuces 3124
Leucospermum 3508
 oranges 7214

responses

apples 150-151, 1106, 2878,
 2909, 3782, 8275-8276,
 9190, 10103
Aralia cordata 1495
 Asteraceae 594, 1530
 aubergines 8640, 9568
 beetroots 10397
 Cactaceae 1586
Calanthe discolor 1598
Capsicum 8638
 carrots 5132, 7838
Catharanthus roseus 6215
 cherries 8336, 10193
 chrysanthemums 2381-2382, 3390
Citrullus colocynthis 6279
Citrus 843, 5364
 clementines 6343, 8075, 8963
Coriandrum sativum 9816
 cucumbers 416, 1369, 4153
Cucurbita maxima 5913
Cyclamen persicum 3428
Dahlia pinnata 8785
 dates 5415
Digitalis lanata 4458
Digitalis purpurea 4458
Echinacea purpurea 5183
Eschscholzia californica 7004
Freesia 1562
 garlic 333, 5782
Gladiolus 7891, 8788
 globe artichokes 4067, 7681
 grapefruits 4530, 5400
 grapes 272, 299, 3989, 7636,
 8487, 9402, 10349
 guavas 1822, 4616, 7318
Gypsophila paniculata 4303
Heuchera 2395
Hippeastrum 1575
Hippeastrum vittatum 2413
 jackfruits 7266
Kalanchoe marmorata 683
 kiwifruits 2040
 lawns and turf 3442
 lettuce 3128, 10410
Lilium japonicum 648
 limes 8065
Limonium sinuatum 10631
Litchi 7236
 loquats 7239
 mandarins 839, 4518-4520, 5384,
 8075
 mangoes 7333, 8151, 9982,
 10959, 10966
Matthiola incana 6114
Momordica charantia 404
Momordica dioica 6830

Plant growth regulators cont.

gibberellic acid cont.

responses cont.

Myrica rubra 5449
Nigella sativa 9855
 olives 7249
 onions 10390
Opuntia ficus-indica 9921
 oranges 842, 2621, 4525, 5365,
 7214, 9893
Panax pseudoginseng 4465
Panax quinquefolius 10794
 peaches 2006, 4837, 10217,
 10220
 pears 9190, 10103, 10234, 10238,
 10240
 peas 2253, 5058, 10500
 persimmons 1765, 9919
Phaseolus vulgaris 530
Pieris japonica 7979
Pittosporum eugenioides 5290
Pogostemon cablin 7147
 pomegranates 1767
Prunus spachiana 5294
 radishes 5884
Rhododendron 6192
 roses 4404-4405, 7097
 sapodillas 950, 9084, 9086, 10999
 satsumas 835, 8963
Scabiosa 2395
Spathiphyllum patinii 1596
 spinach 10398
 stone fruits 8235
 strawberries 3017
Strelitzia reginae 1557
 tangors 5397
 tea 6457, 11002
 tomatoes 530, 10562, 10570
Vaccinium ashei 1201, 7578
Viola odorata 9838
Ziziphus mauritiana 968
Ziziphus sativa 7371

translocation, apples 7489

gibberellins

application date

grapes 9406
 pears 4842
Pyrus pyrifolia 4842
 sapodillas 10003

composition

Anemia phyllitidis 7917
 apples 7496
 cherries 8335
 lemons 10860
 peas 1400
Prunus spachiana 6234
 radishes 7719

determination

Citrus 5389
Pharbitis nil 6100
 satsumas 4532

in vitro culture

Asparagus densiflorus 8820
Shepherdia rotundifolia 10743
 injuries, *Nymphaea* 2429

metabolism

apples 7492
 bananas 3645
Citrus tamurana 10852
 cucumbers 1369, 1371, 4156
 grapes 292
Hibiscus sabdariffa 6297
 horticultural crops 7425
 mangoes 6432
 melons 2701
 peaches 3849, 3857
 peas 5975, 5982
Pharbitis nil 6099-6100
 plants 3728
 radishes 5884
 satsumas 3604, 10854, 10861
Tephrosia purpurea 10801
 tomatoes 8685
 tulips 651

physiology

apples 6587
 lettuce 3124
Leucospermum 3508
 pawpaws 2732
 peaches 7529
 peas 4176

Plant growth regulators cont.

gibberellins cont.

physiology cont.

Phaseolus vulgaris 9528
Prunus spachiana 7529
Pyrus pyrifolia 190
 tomatoes 4206

responses

Aegle marmelos 9845
Alstroemeria 5205
 apples 1072, 1104, 1108, 3799,
 4784, 4789, 5603, 6558,
 7493, 10118, 10131
 apricots 9253
 avocados 3575, 6308
Campanula isophylla 7873
Capsicum 8638
 carrots 5132
 celery 3319
 horticultural crops, reviews 8208
 lemons 846
Leptinula edodes 575, 1504
Lilium speciosum var. *rubrum*
 7899
 mangoes 7333
Matthiola incana 6114
Nymphaea 2429
 oranges 2621, 5365
Paeonia suffruticosa 7117-7118
 pears 10118, 10240
 peas 6870
Petroselinum crispum 6267
Pharbitis nil 9670
Phaseolus vulgaris 6853
Prunus 7120
Pyrus pyrifolia 190
 radishes 4125
 satsumas 3611
Strelitzia reginae 7886
 temperate fruits 7449
 tomatoes 8652
Uniola paniculata 4318
 walnuts 10255
Wedelia chinensis 6292
 translocation, *Pharbitis nil* 6099-6100

growth inhibitors

composition, *Cucurbita maxima* ×
Cucurbita moschata 10479

metabolism, *Gladiolus tubergenii*

1564

physiology, lettuce 7685

growth promoters, metabolism, *Gladiolus tubergenii* 1564

growth retardants, biochemistry, horticultural crops 7425

growth stimulators

composition, peas 4081

responses

grapes 2087

vegetables 4081

humates, responses, carambolas 9104

IAA

composition

apples 9179, 10130

coffee 903

lemons 10860

determination

apples 8302

Citrus 5389

Pharbitis nil 6100

satsumas 4532

in vitro culture

Acer rubrum 7100

Aegle marmelos 8997

Aloe barbadensis 8819

Anastatica hierochuntica 1679

Artemisia absinthium 9828

Artemisia pallens 752

Asparagus densiflorus 3449, 8820

Boerhavia diffusa 3538

Camellia 712

Capsicum 471, 1412, 2275, 2281

Carica pubescens 9061

cashews 8129

Catharanthus roseus 761

cauliflowers 8545, 10427

cherries 10190

Crinum macowanii 4333

cucumbers 3168, 5893, 6836

Ficus benjamina 7046

garlic 2120

Plant growth regulators cont.

IAA cont.

in vitro culture cont.

Gerbera 8750
 globe artichokes 354
 grapes 3956, 4907
Hevea 10992
 hyacinths 2402, 10645
 kiwifruits 1186
Lavandula intermedia 3258
Maytenus ilicifolia 3547
 persimmons 9915
Phlox paniculata 5188
Phyllanthus emblica 11025
 pistachios 2020
Plantago ovata 9859
Plumbago indica 7178
Psophocarpus tetragonolobus 6875
Ptilotus exaltatus 7012
Pyrus 2967
 radishes 7716, 8561
Rosa multiflora 2485
 roses 9783
 spinach 3106
Stapelia semota 5246
Stryphnodendron polyphyllum 3551
 tomatoes 1440, 2291, 3258, 7793-7794, 7827
 watermelons 1813
Ziziphus mauritiana 5517
 injuries, horticultural crops 10071
 metabolism
 almonds 5589
Aranda 5254
 chicory 10407
Citrus 5389
Citrus tamurana 10852
 cucumbers 1369, 1371, 10478
 grapes 8450
Hibiscus sabdariffa 6297
 lettuces 368
 melons 9969
Pharbitis nil 6100
Psophocarpus tetragonolobus 5985
 satsumas 3604-3605, 10861
Tephrosia purpurea 10801
 tomatoes 1470
Vaccinium ashei 8417
Vanda 5254
 walnuts 8389, 10256
Ziziphus sativa 7371
 physiology
 apples 2911
 lettuces 7694
 peaches 7529
 peas 1396
Prunus spachiana 7529
 responses
Anthurium andraeanum 6107
 apples 6548
 aubergines 8640, 9568
 avocados 6308
 beetroots 10397
Bougainvillea peruviana 7949
Capsicum 8638
Chamelaucium uncinatum 1616
 cucumbers 2211
 grapes 8451
 guavas 2715
Hedera helix 6548
Hippeastrum vittatum 2413
 horticultural crops 10071
 jackfruits 8113
Jasminum grandiflorum 5263
Lantana camara 10737
Laurus nobilis 5287
 lemons 1714
Lentinula edodes 1504
Litchi 7236
 loquats 1714
Opuntia ficus-indica 9921
 ornamental woody plants 1616, 7073
Paeonia suffruticosa 7117
Parthenium argentatum 780
 peas 1401, 6870, 10504
 persimmons 5437
Pimenta dioica 7993

Plant growth regulators cont.

IAA cont.

responses cont.

poinsettias 5264
Rauvolfia serpentina 8039
Rehmannia glutinosa 8040
Rosa kordesii 4402
 roses 4402
 strawberries 8429
Vicia faba 4168
 translocation
 peas 10507
Pharbitis nil 6100
Vicia faba 3207

IBA

application methods, *Aesculus*

parviflora 2490

composition, coffee 903

in vitro culture

Acer rubrum 7100
Aegle marmelos 8997, 9846
Aloe barbadensis 8819
 apples 1071, 8258-8259
 apricots 8325
Asparagus densiflorus 8820
 avocados 794, 4476
 blackberries 6653
Caladium bicolor 10681
Camptotheca acuminata 8911
 carambolas 7372
 carnations 10612
Catharanthus roseus 761
Chaenomeles japonica 5696
 cherries 10190
 coffee 9026
 cucumbers 6811
 dates 5413
Ficus benjamina 7046
Garrya elliptica 6222
 grapes 3955, 3957, 4907
Hemidesmus indicus 6284
Hevea 10993
 hops 10768
Jatropha curcas 8930
 kiwifruits 1186
Lachenalia 1576
Liatris spicata 6137
Luculia 2510
Melissa officinalis 6264
Millingtonia hortensis 4425
 oranges 7198
 passion fruits 4555
 pawpaws 2731
 peaches 10211
 pears 1160, 10230
 peas 6858
 pistachios 2020
Plumbago indica 7178
 plums 2029
Psophocarpus tetragonolobus 6875
Ptilotus exaltatus 7012
Pyrus 2967
 radishes 7716
Rosa multiflora 2485
 roses 5271, 10727
Solanum pseudocapsicum 4429
Stapelia semota 5246
Stokesia laevis 621
Trichopus zeylanicus 1693
Vismia guianensis 2570
 watermelons 4608
Ziziphus mauritiana 5517
 metabolism, walnuts 10256
 responses
Aesculus parviflora 2490
Anthurium andraeanum 6107
 apples 123, 1066, 6547, 10098
Bougainvillea butiana 5261
Bougainvillea peruviana 7949
 carnations 6089, 6993
Cephalotaxus harringtonia 7077
Chamelaucium uncinatum 1616
 coffee 4600, 10924
Fagus sylvatica 7968
Ficus auriculata 8344
Gnetum africanum 4263
 grapes 8450-8451, 10315
 guavas 2715, 9957, 10938-10939
Hibiscus sabdariffa 6297
 jackfruits 2671, 5451, 8113

Plant growth regulators cont.

IBA cont.

responses cont.

Jasminum grandiflorum 5263
Juniperus procumbens 2477
 kiwifruits 4867
Lagerstroemia indica 7973
 lemons 1714
Lentinula edodes 1504
Lilium 645
Lilium lancifolium 645
Litchi 1746, 3613, 8089
 loquats 1714
 olives 861, 10881
 ornamental woody plants 1616, 7073
Panax quinquefolius 10794
Parkia biglobosa 5526
 peaches 4827-4828
 pears 1159
Persoonia virgata 1653
Pistacia chinensis 6231
 plums 4853, 3919
 poinsettias 5264
 pomegranates 5440
Psidium 10940
Psidium chinensis 9957, 10938
Rauvolfia serpentina 8039
Rehmannia glutinosa 8040
Rhododendron 4398, 6192, 7955
Rosa kordesii 4402
 roses 4402, 5270
Salvia officinalis 756
Syzygium jambos 3696
Thladiantha grosvenorii 8043
Wedelia chinensis 6292
 synergists, olives 3617
 imazalil, in vitro culture, *Spathiphyllum floribundum* 690
 imazaquin, responses, lawns and turf 9721
 isatin, responses, tomatoes 6028
 isopentenyladenine
 composition
 oil palms 10981
Phaseolus vulgaris 5945
 in vitro culture
Albizia julibrissin 6213
Anthurium 1548
Asparagus densiflorus 8820
 coffee 9026
 dates 5413
Ensete ventricosum 6057
Hevea 10992
 leeks 4952
Matthiola incana 8777
 melons 6812
Mucuna pruriens 5342
 pawpaws 2731
 persimmons 9915
 radishes 8561
Syngonium podophyllum 5247
Trichopus zeylanicus 1693
 isopentenyladenosine
 composition
 oil palms 10981
Phaseolus vulgaris 5945
 in vitro culture
Anastatica hierochuntica 1679
Shepherdia rotundifolia 10743
 metabolism
Aranda 5254
 chicory 10407
 lettuces 368
Lilium davidii 4326
Vanda 5254
 physiology, peas 1396
 responses, aubergines 8640, 9568
 isopropylthiolane, responses, strawberries 7590
 jasmonic acid
 metabolism, tomatoes 5118
 responses
 celery 10581
 horticultural crops, reviews 7430
 2-KhEFK, responses, horticultural crops 8212
 kinetin
 in vitro culture
Albizia julibrissin 6213
Anastatica hierochuntica 1679

Plant growth regulators cont.
kinetin cont.*in vitro* culture cont.

- Anthurium* 1548
Aristolochia bracteata 4454
Armoracia rusticana 6243
Artemisia pallens 752
Asparagus 4181
Asparagus densiflorus 3449, 8820
 avocados 4476
Boehmeria nivea 9840
Boronia 1640
Bunium persicum 8005
 calamondins 9880
Camptotheca acuminata 8911
Capsicum 2281
Carica pubescens 9061
 carnations 596, 1533, 7862
 cashews 8129
Catharanthus roseus 761-762, 7161
 cauliflower 8545, 10427
Citropsis schweinfurthii 10836
 cocoa 5469
 coffee 3656
Crateva religiosa 5337
Crinum macowanii 4333
 cucumbers 5893
Cucurbita pepo 1353
Cyclamen 9694
Cyclamen persicum 631
Cymbopogon 8902
 dates 849
Dianthus chinensis 1532
Dionaea muscipula 8824
Drosera 8824
Encephalartos cycadifolius 7109
 garlic 1279, 2120
Gladiolus 3429
 grapes 4907
Hemidesmus indicus 6284
Hevea 2742
Hibiscus syriacus 10736
Hosta fortunei 8775
Jatropha curcas 8930
 kumquats 6315
Limonium sinuatum 4309
 mandarins 1716, 9880
Matthiola incana 8777
 melons 1812, 6812
Millingtonia hortensis 4425
 oranges 9880
 Orchidaceae 7055
 peaches 3850
 peas 6858
Petroselinum crispum 6268
Phyllanthus emblica 11025
Plantago ovata 9859
Platycerium bifurcatum 7918
Ribes 3918
 roses 8857
Solanum pseudocapsicum 4429
Solenostemon rotundifolius 8721
Stachys sieboldii 5145
Syngonium podophyllum 5247
 tomatoes 7793-7794
Trichopus zeylanicus 1693
Vaccinium macrocarpon 3930
Vanda 7945
 Welsh onions 343
 responses
 apples 1115
 beetroots 10397
 carnations 6089, 7861
 Chinese cabbages 1341
 cucumbers 5910
 cut flowers 9650
 grapes 10347
Iris 6128
 lettuces 3128
Litchi 7236
 mangoes 9981
Momordica dioica 6830
Myrica rubra 5449
Parthenium argentatum 780
Pharbitis purpurea 3398
 radishes 4125, 9495
 sapodillas 950
 watermelons 8144
Ziziphus mauritiana 968

Plant growth regulators cont.

maleic hydrazide

in vitro culture, carnations 7862

responses

- Callistephus chinensis* 3406
Coriandrum sativum 9816
Costus speciosus 2542
Gaillardia 7006
 garlic 9434
Momordica charantia 404
 onions 8507, 10392, 10394
 sapodillas 9085
 MCPA-thioethyl, responses, pears 10240
 MCPB, responses, apples 7490
 mefluidide
 responses
 cabbages 9485
Chamelaucium uncinatum 8871
 melons 2701
 olives 4551
 mepiquat
 responses
Hibiscus sabdariffa 6297
Hosta plantaginea 7875
 pears 8365
 tulips 652
 meta-tolylphthalamic acid, responses,
 tomatoes 9610
 metabolism, tomatoes 9605
 methanol
 responses
Centaurea cyanus 4290
Pelargonium hortorum 4290
 methyl jasmonate
in vitro culture
 carrots 6043
 coffee 9035
 pistachios 2020
 responses
Catharanthus roseus 8025
 celery 10581
 cucumbers 5911
Cucurbita pepo 417
 horticultural crops, reviews 7430
Kalanchoe blossfeldiana 2433, 7922
 tomatoes 5121
 tulips 3436, 7901
 methylcyclopropene
 responses
 bananas 5575
Campanula carpatica 5575
 carnations 5575, 6092
Chamelaucium uncinatum 1643
 horticultural crops 7431
 peas 5575
 tomatoes 5575
 methylenecyclopropene, responses, carna-
 tions 6092
 morphactins
 responses
 tea 11003
Vicia faba 5054
Ziziphus mauritiana 967
 NAA
 absorption, tomatoes 6936
 application date
 apples 4787
 grapes 2102
 sapodillas 10003
 application methods, apples 3798, 5621
in vitro culture
Actinidia arguta 1185
Anastatica hierochuntica 1679
Annona muricata 7263
Antirrhinum 4280
 apples 3771, 8259
Aristolochia bracteata 4454
Artemisia absinthium 9828
Artemisia annua 9848
Artemisia pallens 752
Asparagus 4181
Asparagus densiflorus 3449, 8820
 avocados 794
Babiana 7026
 bananas 3646
Boehmeria nivea 9840
Boerhavia diffusa 3538
Brassica chinensis 3138
Bunium persicum 8005

Plant growth regulators cont.

NAA cont.

in vitro culture cont.

- cabbages 10429
Caladium bicolor 10681
Camellia 712
Capsicum 471, 2281
 carambolas 7372
Carica pubescens 9061
 carnations 597, 1533, 10612
Catharanthus roseus 762, 7161
 cherries 10190
 Chinese cabbages 376
Cnidium officinale 9851
Crateva religiosa 5337
Crinum macowanii 4333
 cucumbers 3168
Cucurbita pepo 1353
Cymbopogon 8902
Cymbopogon flexuosus 6259
 dates 849, 5413
Dendrobium 2444, 7936
Drosera rotundifolia 5338
Eucomis 4334
Eucomis pole-evansii 4460
Eucommia ulmoides 2552
 garlic 1279, 4021
Gladiolus 1563, 3429
Glehnia littoralis 8713
 globe artichokes 354
 grapes 1228, 3955, 3957, 3959, 4907, 8453
Hemidesmus indicus 6284
Hevea 10992-10993
Hibiscus syriacus 10736
Hosta fortunei 8775-8776
 hyacinths 10645
Lachenalia 1576
Lagerstroemia indica 1650
Lavandula intermedia 3258
Lilium 2405-2406
Lilium japonicum 646
Lilium leichlinii 2405-2406
Liquidambar styraciflua 4421
Luculia 2510
Magnolia delavayi 7086
Magnolia soulangiana 9778
 mandarins 1716
 mangosteens 6467
Matthiola incana 8777
Melissa officinalis 6264
Millingtonia hortensis 4425
Moringa oleifera 7169
Mucuna pruriens 5342
Munronia pumila 10792
Musa acuminata 2676
Nelumbo 8814
 olives 2652
 oranges 7198
Paeonia anomala 4313
 pawpaws 2731, 10985
 peas 1389, 6858
Petroselinum crispum 6249, 6268
Phyllanthus emblica 11025
Pinellia pedatisecta 10798
 pistachios 2020
Platycerium bifurcatum 7918
Pouteria lucuma 10025
Ptilotus exaltatus 7012
Pyrus 2967
 radishes 1345, 7716, 8561
Rauvolfia micrantha 8926
Rosa multiflora 2485
 roses 1632, 4401, 9783
Rudbeckia hirta 5191
Solanum viarum 10800
Solenostemon rotundifolius 8721
 spinach 4969
Stachys sieboldii 5145
Stapelia semota 5246
Stokesia laevis 621
Stryphnodendron polyphyllum 3551
 tomatoes 2291-2292, 3258, 4244
Trachyspermum ammi 4442
Trichopus zeylanicus 1693
Vaccinium macrocarpon 3930, 8411
Vanda 7945
 Welsh onions 4050
Zingiber officinale 2523, 5325

Plant growth regulators cont.**NAA cont.***in vitro* culture cont.*Ziziphus mauritiana* 5517

injuries, horticultural crops 10071

physiology

pawpaws 2732

peas 1396

plant growth regulators, *Gleditsia triacanthos* 6223

responses

Anthurium andraeanum 6107

apples 128, 1110, 6547, 7472, 7490-7491, 8277, 10141

Bougainvillea peruviana 7949*Calanthe discolor* 1598*Capsicum* 6896

carnations 6089, 6993, 7861

cashews 9940, 9942

Castanea mollissima 1995*Chamaelium uncinatum* 1616*Citrullus colocynthis* 6279*Citrus* 5369

clementines 5398

coffee 10924

Coriandrum sativum 9816

cucumbers 1369

Cyclamen persicum 3428

dates 5415

Ficus auriculata 8344

grapes 3986, 8450-8451

guavas 2715, 9957, 9971, 10938-10939

horticultural crops 10071

jackfruits 2671, 7266, 8113

Jasminum grandiflorum 5263*Juniperus procumbens* 2477

kiwifruits 2040, 4867

Lantana camara 10737

lemons 1714

Lilium 645*Lilium lancifolium* 645*Litchi* 7236

loquats 1714, 7239

mandarins 2617, 4518-4519, 5393

mangoes 7334, 9057, 10966

Matthiola incana 6114

onions 10387, 10390, 10392

ornamental woody plants 1616, 2468, 7073

Parkia biglobosa 5526

pears 1159

pecans 1172

Phaseolus vulgaris 6853, 8596

pineapples 2736, 8161, 9996

plums 9325

poinsettias 5264

pomegranates 1767, 3632-3633

Psidium 10940*Psidium chinensis* 9957, 10938

pumpkins 5488

Pyrus pyrifolia 2972*Rauvolfia serpentina* 8039*Rosa kordesii* 4402

roses 4402

strawberries 3017

Syzygium samarangense 2782

tea 6457

tomatoes 5123

Trigonella foenum-graecum 2567

surfactants, tomatoes 6936

translocation, cucumbers 5919

naphthaleneacetamide

application date, apples 10132-10133

responses, apples 7472, 8304, 8307, 10131, 10133-10134, 10140

naphthoxyacetic acid, responses, tomatoes 4211

naphthylacetamide, responses, apples 1108, 8277

nitroguaiacolate, responses, walnuts 7555

nitrophenolate, responses, walnuts 7555

norbornadiene, responses, carnations 6090

paclobutrazol

application date

apples 4771

peaches 6619

application methods

Lantana camara 6228*Litchi* 1747, 4539**Plant growth regulators cont.****paclobutrazol cont.**

application methods cont.

loquats 8978

mangoes 9975, 9978

peaches 6619

poinsettias 1627, 4393

Rhododendron obtusum 5266

walnuts 1183

in vitro culture

blackberries 6653

Citrus latifolia 7212

grapes 1227

kiwifruits 210, 2038

Musa acuminata 2676

pineapples 7346

persistence, apricots 3809

residues

apples 6577

Litchi 1747, 4539

responses

Acacia 9793

almonds 5589

apples 101, 1080, 1953, 3782, 8276, 10118

apricots 3809, 9236

Arbutus 3906*Aster novi-belgii* 1549

avocados 3575

bananas 886

Barleria cristata 5278*Bougainvillea spectabilis* 7075

cherries 7519

Citrus 5366

clementines 8963

cucumbers 4153

Epipremnum pinnatum 6158

figs 2944

garlic 5782

grapes 272, 2090

Hosta plantaginea 7875*Kalmia latifolia* 7091*Lantana camara* 6228*Litchi* 1747, 4539

loquats 5424

Malus hupehensis 1105

mandarins 8961

mangoes 1830-1831, 9978

Matthiola incana 6114

olives 7249

oranges 7211

ornamental woody plants 2468

peaches 2949, 3860, 10213, 10215

pears 8365, 10118

Phaseolus vulgaris 530*Pittosporum eugenoides* 5290

plums 9325

poinsettias 4393

Pyrus pyrifolia 190*Rehmannia glutinosa* 8040*Rhododendron* 7091*Rhododendron simsii* 6193

roses 7097

satsumas 835, 8963, 10854

tomatoes 491, 530, 6924, 8663, 9587

tulips 652

Vaccinium ashei 239*Viola odorata* 9838

walnuts 1183, 7555

pelargonic acid, responses, apples 128

phenolic acids, responses, *Syzygium jambos* 3696

phenoxydimethyl triazolylhexanol, responses, nectarines 3859

phloroglucinol, responses, apples 6547

picloram

in vitro culture*Astroemeria* 654

peas 1389

plant extracts

physiology, lettuces 3124

responses

celery 3319

lettuces 10409-10410

polyamines

in vitro culture*Lilium longiflorum* 5197

radishes 7716

Plant growth regulators cont.**polyamines cont.**

metabolism

apples 2908

Capsicum 2282

walnuts 8389

physiology, strawberries 254

responses

Chinese cabbages 1341

plums 10253

prohexadione calcium

responses

Hydrangea macrophylla 8850

satsumas 835

proline, responses, *Hippeastrum vittatum* 2414

propylene, responses, pears 8372

reviews

Citrus 1738

fruit crops 7409

ornamental plants 7858

vegetables 7646, 9426

salicylic acid

in vitro culture*Lavandula intermedia* 3258

tomatoes 3258

physiology

Capsicum 5663

peaches 5663

responses, *Hibiscus rosa-sinensis* 4419

succinic acid, responses, cauliflowers 10436

sulfcarbamide, responses, apples 128

2,4,5-T

in vitro culture, peas 1389

responses

loquats 7239

mangoes 7334

onions 10392

thidiazuron

in vitro culture*Acer rubrum* 7100*Albizia julibrissin* 6213

avocados 794

bananas 7271

Camptotheca acuminata 8911*Capsicum* 1412, 6898*Carica pubescens* 9061

carnations 1533

feijoas 8971

garlic 7656

Hevea 10993*Hibiscus syriacus* 10736*Liatris spicata* 6137*Millingtonia hortensis* 4425

olives 2652

peaches 3850

Petroselinum crispum 6268*Phlox paniculata* 5188

plums 2029

raspberries 5706

Rosa multiflora 2485

roses 4401

Shepherdia rotundifolia 10743*Vaccinium macrocarpon* 8411

responses

apples 1104

Pelargonium hortorum 5176

persimmons 2657

Spathiphyllum 7925

thiourea

responses

apricots 9242

Catharanthus roseus 6215*Momordica dioica* 6830*Opuntia ficus-indica* 9921

TIBA

responses

apples 3782, 6547

Callistephus chinensis 3406

cashews 5464

pears 8365

Phaseolus vulgaris 8596*Ziziphus mauritiana* 967

triacontanol

responses

Capsicum 472*Cymbopogon flexuosus* 8008

okras 466

Pelargonium 9834

Plant growth regulators cont.

- triacontanol cont.
- responses cont.
- tea 2765
- tomatoes 472, 1467
- Vicia faba* 1383
- triadimefon, *in vitro* culture, bananas 4578
- triadimenol, responses, *Chamaelium uncinatum* 8871
- triapenthenol, responses, *Matthiola incana* 6114
- triazoles, reviews, ornamental plants 2373
- 3,5,6-trichloro-2-pyridyloxyacetic acid responses
- Citrus* 4705
- clementines 2619
- trinexapac, responses, lawns and turf 10668
- uniconazole
- application methods, poinsettias 1627
- in vitro* culture
- bananas 4578
- grapes 1227
- responses
- apples 1953
- Aster novi-belgii* 1549
- cucumbers 5910
- Forsythia intermedia* 2501-2502
- Fuchsia* 7971
- Kalmia latifolia* 7091
- Matthiola incana* 6114
- melons 2701
- ornamental woody plants 2468
- Rhododendron* 7091
- satsumas 835
- strawberries 7590
- tomatoes 491, 8663
- urea
- injuries, oranges 9893
- responses
- apples 4784, 7491, 9200
- guavas 10945
- mangoes 7334, 9057
- oranges 9893
- pineapples 9996
- zeatin
- composition
- lemons 10860
- oil palms 10981
- Phaseolus vulgaris* 5945
- in vitro* culture
- Albizia julibrissin* 6213
- Anastatica hierochuntica* 1679
- apricots 8325
- bananas 4579
- Carica pubescens* 9061
- cashews 8129
- Dianthus chinensis* 1532
- garlic 1279
- hops 10768
- hyacinths 2402-2403
- Jatropha curcas* 8930
- kiwifruits 1186
- Matthiola incana* 8777
- melons 6812
- peaches 3850
- persimmons 9915
- radishes 8561
- Solanum viarum* 10800
- tomatoes 1440, 4244
- Welsh onions 5833
- metabolism
- carrots 2324
- chicory 10407
- grapes 3067
- tea 6458
- tomatoes 10570
- walnuts 10256
- physiology, lettuces 3124
- plant growth regulators, *Gleditsia triacanthos* 6223
- responses
- Capsicum* 8638
- hyacinths 2403
- peas 6860
- tomatoes 6028
- zeatin riboside
- composition
- oil palms 10981

Plant growth regulators cont.

- zeatin riboside cont.
- composition cont.
- Phaseolus vulgaris* 5945
- in vitro* culture
- Aloaceae 4360
- tomatoes 2292
- metabolism
- chicory 10407
- Lilium davidii* 4326
- tomatoes 10570
- physiology, peas 1396
- Plant residues**
- utilization
- disease control
- coffee 753
- tea 753
- feeds
- pineapples 9065
- tomatoes 8699
- fertilizers
- Brassica chinensis* 8550
- Capsicum* 473
- coconuts 6396
- Cypripedium macranthum* 10704
- kohlrabi 5003
- lettuces 1310, 7695
- onions 5821
- Pleurotus sajor-caju* 9637
- shallots 5821
- Spirulina platensis* 8049
- strawberries 5730
- fodder
- celery 2119
- kiwifruits 7564
- melons 2119
- olives 7564
- Phaseolus vulgaris* 2119
- tomatoes 2119
- Vicia faba* 2119
- growing media
- Agroclybe* 2355
- Armillaria* 10588
- Auricularia* 3354
- Auricularia polytricha* 5148
- bedding plants 8743
- cucumbers 8566
- Cupressocyparis leylandii* 3476
- Cupressus sempervirens* 9772
- Cyclamen persicum* 630
- edible fungi 2334, 4266
- Ficus benjamina* 8825, 10687-10688
- Flammulina velutipes* 1502
- horticultural crops 6511
- lettuces 2162
- Metroxylon* 977
- Monstera deliciosa* 10691
- mushrooms 567
- oranges 8054
- Pelargonium hortorum* 3399
- Pleurotus* 2355, 6982, 9635, 10591, 10595
- Pleurotus florida* 1506
- Pleurotus ostreatus* 6986, 10596
- Pleurotus sajor-caju* 580, 6075-6076, 10599-10600
- pot plants 1519
- Prunus cistena* 6232-6233
- tomatoes 491-492, 8566
- vegetables 1268
- Volvariella esculenta* 6078
- Volvariella volvacea* 1508
- mulches
- apples 1074, 7467
- Aralia cordata* 1495
- Aruncus dioicus* 10584
- avocados 4483
- bananas 8122
- broccoli 9424
- Bupleurum falcatum* 10779
- Citrus* 8068
- coconuts 1800
- Hevea* 9075
- lettuces 9424
- pears 7467
- Phaseolus vulgaris* 6842
- tea 7357
- tomatoes 1441, 6014, 6920, 8661, 9424
- vegetables 8496

Plant residues cont.

- utilization cont.
- propagation
- chrysanthemums 3387
- Hevea* 9069
- reviews, oil palms 3680
- shading, tomatoes 9580
- soil amendments
- coconuts 9950
- lettuces 2160
- ornamental plants 10610
- Piper nigrum* 9821
- radishes 6800
- sour oranges 9881
- tomatoes 10610
- vegetables 8497
- Zingiber officinale* 10753
- waste water treatment, *Vitellaria paradoxa* 8045
- Plant training**
- economics
- apples 4770, 6557
- pears 10231
- labour requirements
- apples 8273, 9177
- grapes 270, 3964, 3972, 6703
- pruning, apples 5602
- responses
- apples 100, 102, 1079, 4724, 4748-4750, 4768-4769, 5602-5603, 7461, 8273
- Capsicum* 3243
- cashews 9941
- grapes 271
- systems
- apples 1069, 1952, 2871-2872, 2916, 4746, 4768, 4770, 6557, 7465, 7471, 8274, 9177, 9188-9189, 10108
- apricots 6594
- blackberries 3920
- Capsicum* 10527
- cherries 3817, 4816, 5638, 8331
- coffee 7298
- figs 2942
- fruit crops 3719
- gooseberries 10277
- grapes 269-270, 307, 1234, 1236, 2086, 3038-3040, 3062, 3971-3973, 3982-3983, 4912, 4914-4915, 5758, 6689, 6702-6703, 7605, 7615-7616, 7618, 8462-8464, 9390
- kiwifruits 8399
- mangoes 9976-9977
- Momordica charantia* 4134
- nectarines 3845
- nut crops 3747
- olives 3747
- peaches 1148, 3853, 8348, 9292
- pears 186
- plums 2981, 6640
- Pyrus pyrifolia* 2970
- raspberries 3920
- Ribes* 3003
- temperate fruits 3747
- Plant water relations (see also Drought; Transpiration; Water stress)**
- assessment
- cucumbers 6025
- grapes 5754
- ornamental woody plants 2475
- tomatoes 6025
- cultivars
- almonds 10091
- tomatoes 9602
- cultural methods, watermelons 1811
- dormancy, grapes 8482
- fertilizers
- cauliflowers 10435
- Polianthes tuberosa* 10660
- flooding
- Momordica charantia* 10465
- tomatoes 5111-5112
- flowering, *Amaranthus cruentus* 10582
- fruiting
- apples 1099
- peaches 6625
- growing media, *Prunus cistena* 6232
- in vitro* culture, apples 2865
- intercropping, coconuts 5472

Plant water relations cont.

irrigation

- apples 1077
- aubergines 2285, 3248
- carobs 1711
- cauliflowers 10435
- lawns and turf 7034
- lemons 7200
- Polianthes tuberosa* 10660
- tomatoes 3266, 9584

measurement

- Acer platanoides* 6210
- Acer rubrum* 6211
- almonds 2614
- cherries 9268
- Crataegus phaenopyrum* 6210
- Ficus elastica* 6446
- Hevea* 6446
- lemons 2614
- roses 9785
- tomatoes 8684

models

- Citrus limetta* 8958
- grapes 6692, 7631

mycorrhizas, lettuces 4074

physiology

- Agave deserti* 5226
- Chamaelucium uncinatum* 2494
- Cucurbita pepo* 2209
- Eucommia ulmoides* 2549
- fruit crops 6520
- grapes 293
- Hevea* 2749
- Laurus nobilis* 5287
- Litchi* 3615, 8973
- onions 5824
- Opuntia ficus-indica* 5446
- peas 2209, 3218
- Phaseolus vulgaris* 6850
- Protea* 1655
- Rhododendron obtusum* 10722
- Tetrastigma voinierianum* 5248
- tomatoes 1472, 2807, 4235
- Tradescantia virginiana* 2434
- plant growth regulators, olives 4551
- plant nutrition, tomatoes 6016
- protected cultivation, horticultural crops 4689

rain, vegetables 1264

rootstock scion relationships, grapes 3954

salinity

- Annona squamosa* 6372
- olives 2650
- sapodillas 7349
- tomatoes 495, 3266, 10550

seasonal variation, roses 8858

soil conditioners, cucumbers 10463

soilless culture, tomatoes 495, 7803

water stress

- almonds 10091
- apples 95, 5605
- Blossfeldiana liliputana* 9736
- cucumbers 5094, 5906
- Cymbidium sinense* 1601
- durians 4652
- grapes 7630, 9409
- kiwifruits 9337
- Litchi* 3614
- onions 4040
- Opuntia ficus-indica* 5446
- Phlomis fruticosa* 5289
- satsumas 8077
- tomatoes 5094, 6016, 9602-9603
- waterlogging, apples 95
- weed control, lettuces 6778

Plantago lanceolata

as weeds

- Citrus* 9884
- lawns and turf 6146
- mangoes 9884
- leaves, composition 4466
- production, Norway 4466

Plantago major, as weeds, lawns and turf 8802***Plantago ovata***

in vitro culture, propagation, micropropagation 9859

pollination, research 9858

salinity, responses 9857

wild plants, utilization 7154

Plantago rugelii, as weeds, lawns and turf 6146**Plantain** (see Bananas)**Planting stock**

age, oil palms 10980

establishment

- Acer rubrum* 6211
- apples 1948
- cherries 2932
- Citrus* 2592
- grapes 10316
- Metroxylon sagu* 4653
- peaches 2932
- raspberries 2046
- vegetables 1259
- Ziziphus mauritiana* 10020

handling, *Quercus laurifolia* 5295

lifting

onions 4955

Quercus laurifolia 5295

overwintering, ornamental bulbs 6121

production

containers

- Acer rubrum* 9795
- Ageratum houstonianum* 6105
- Astilbe chinensis* 5281
- bedding plants 8744
- Caryopteris clandonensis* 5281
- Coreopsis verticillata* 4415
- ornamental conifers 7950
- ornamental woody plants 2467, 2475, 3467
- Plumbago auriculata* 4415
- Quercus shumardii* 6235
- strawberries 9361
- Swietenia mahagoni* 5296
- tomatoes 2294
- Vanda* 9765

cultivars, shallots 1292

cultural methods

- apples 1945, 8246, 8275, 9182, 10103
- bananas 5456
- bedding plants 3381
- Capsicum* 3235
- Chamaecyparis lawsoniana* 2479
- Clematis* 3504
- coconuts 10919
- Cupressocyparis leylandii* 3475-3476
- Cupressus arizonica* 3478
- Fagus sylvatica* 7968
- Gardenia jasminoides* 6221
- garlic 330-331
- grapes 9380
- Hevea* 2739, 9070, 10994
- Kalmia latifolia* 7091
- Lagerstroemia indica* × *Lagerstroemia fauriei* 6227
- lawns and turf 2424
- leeks 4953
- Macadamia* 2639
- Mentha arvensis* 6265
- Mentha piperita* 6265
- Nyssa sylvatica* 6230
- oranges 4496
- ornamental herbaceous plants, books 2792
- ornamental woody plants 3466, 6185
- books 5
- pears 10103
- persimmons 10894
- Petunia* 5177
- Pyracantha* 1656
- Quercus rubra* 6230
- Quercus virginiana* 4428
- Rhododendron* 4399, 7091
- roses 3492
- Salvia splendens* 7883
- strawberries 1205, 2058, 3019, 4884, 7585
- Thuja plicata* 3477
- Ulmus parvifolia* 4428
- Viola paniculata* 4318
- Viola wittrockiana* 5177

energy requirements, olives 6498

environment, strawberries 10290

in vitro culture

- apples 91
- bananas 4578

Planting stock cont.

production cont.

in vitro culture cont.

coffee 7295

dates 5414

Rehmannia glutinosa 8041

labour requirements, olives 6498

Poland

small fruits 1919

temperate fruits 1919

protected cultivation, tomatoes 2294

soilless culture, bedding plants 8743

provenance, *Gladiolus* 634

quality

altitude, strawberries 4884

assessment

broccoli 8547

cabbages 8547

cherries 2932

peaches 2932

roses 9788

strawberries 8423, 8425

size

- Acer rubrum* 6211
- Alstroemeria* 7025
- apples 226, 6549
- Asparagus* 5989
- black currants 226
- Gladiolus* 7016, 8788, 10642
- Lilium japonicum* 648
- onions 5818, 10379-10380, 10391
- Polianthes tuberosa* 663
- strawberries 1205

storage

- Acer platanoides* 6210
- apples 1948
- Asparagus* 5989
- broccoli 9743
- chrysanthemums 9662
- Crataegus phaenopyrum* 6210
- garlic 329
- Hosta tokudama* 9743
- onions 4955-4957, 10389
- raspberries 229
- strawberries 1205, 7583, 8423-8424, 9359-9360, 9362, 10263

treatment

antitranspirants

Quercus laurifolia 5295*Rubus occidentalis* 2045

chilling, strawberries 4887

cold

garlic 5782

strawberries 9361

fungicides, garlic 10372

hot water treatment

bananas 4582

garlic 5780

insecticides, grapes 3960

mycorrhizas, tomatoes 10553

plant growth regulators

garlic 333, 5782

onions 10390

waxes

Acer platanoides 6210*Crataegus phaenopyrum* 6210

types

assessment

- Acer rubrum* 2489
- apples 4758-4759
- Asparagus* 4179
- globe artichokes 4066
- Hevea* 9068
- limes 9874
- pecans 198
- strawberries 5722, 5726, 8424
- Vaccinium corymbosum* 5708
- Zingiber officinale* 8889

Plants

books, USA 4661

cuttings, rooting, reviews 2835

in vitro culture

culture media 31

propagation, micropropagation,

reviews 3716

techniques 6495

leaves, areas, assessment 2808

mechanically induced stress, responses,

reviews 3728

nutrients, requirements, analysis 7417

- Plants cont.**
 plant
 biochemistry 6519, 7426
 composition 3732
 plant growth regulators
 auxins, metabolism 3728
 ethylene, metabolism 3728
 gibberellins, metabolism 3728
 pollution, lead 2129
 products, research, China 9813
 research, experimental equipment 2807
 roots, anatomy 2835
 seeds
 biochemistry 1049
 dormancy
 physiology 1026
 reviews 3718
- Plasmidiophora brassicae**
Brassica 384
Brassica chinensis 6793
- Plasmopara viticola**, grapes 67, 259, 279, 282, 1242, 4919, 4922, 4924, 6708, 7639-7640, 8469-8470, 9412, 10336-10337, 10342
- Plastic fabric**
 utilization
 mulches
 apples 8264, 8271
 aubergines 9562
 Capsicum 9562
 Vaccinium 8413
 pest control
 Phaseolus vulgaris 5006
 turnips 5006
 protected cultivation
 broccoli 9488
 Chinese cabbages 9474
 shading, tomatoes 1443
- Plastic film**
 utilization
 mulches
 Annona squamosa 2670
 apples 1074, 1945, 1951, 6555, 8264, 8271
 Aralia cordata 1495
 aubergines 483, 3249, 9562
 bananas 8122
 cabbages 377
 Capsicum 3238-3240, 5484, 5995, 5999, 7774, 9562
 cauliflowers 377
 Cucurbita pepo 2300, 5897
 garlic 332
 Hevea 9075
 hops 9841
 horticultural crops 1021, 1047, 8215
 lettuces 4073
 melons 3665, 6412
 mushrooms 2348
 Ocimum basilicum 5934
 okras 9550
 Phaseolus vulgaris 5934
 raspberries 2046, 4878, 8408
 Salvia officinalis 3529
 strawberries 7587
 tea 10010
 tomatoes 504-506, 2300, 4940, 6014, 8660, 9586
 Vaccinium 8413
 Vaccinium corymbosum 3009
 watermelons 2702, 5484
- packing
 bananas 9013
 Flammulina velutipes 10590
 horticultural crops 7781
 kiwifruits 10272
 mangoes 5496
 oranges 8084
 peaches 4839
 Pleurotus ostreatus 10590
 roses 728
 Sechium edule 5038
 strawberries 3949
 Ziziphus mauritiana 3694
- propagation
 mangoes 2720
 Vanda 9765
- protected cultivation
 aubergines 483
 broccoli 9488
- Plastic film cont.**
 utilization cont.
 protected cultivation cont.
 cabbages 3140
 chicory 356
 endives 356
 greenhouse crops 6504
 horticultural crops 40, 42, 1021, 1041, 6507, 7412, 8216
 lettuces 7684, 10414-10415
 melons 1814, 3668
 Rumex acetosa 2273
 spinach 7676
 tomatoes 6915
 Urtica dioica 8929
 vegetables 318
 watermelons 2702
- shading, tomatoes 9580
- storage
 apples 140, 1976, 8309
 apricots 10183, 10185
 Asparagus 221, 10516
 atemoyas 10909
 avocados 4482
 bananas 9013, 10912
 broccoli 4120
 guavas 9971
 horticultural crops 9156
 kiwifruits 221
 lettuces 10420
 mangoes 1976
 persimmons 9918
 Pyrus bretschneideri 8374
 sapodillas 6449
 strawberries 9374
 tomatoes 7829
 Vaccinium ashei 10285
 Vaccinium corymbosum 10286
 Vigna radiata 5986
- wrappings, satsumas 8967
- Plastic foam**
 utilization
 growing media
 cucumbers 3171-3172, 8566
 Gerbera 10622
 horticultural crops 6511
 tomatoes 4216, 6923, 8566, 9616
- packing, peaches 5669
- Plastic nets**
 utilization
 pest control
 dates 2630
 vegetables 3079
 protected cultivation, vegetables 9423
 shading
 kiwifruits 211, 219
 strawberries 242
- Plastics**, utilization, growing media, tomatoes 8667
- Plastoscia perniciosia**, ornamental woody plants 4390
- Platanus acerifolia**, salinity, injuries 2469
- Platanus occidentalis**, leaves, physiology 10070
- Platycerium bifurcatum**, *in vitro* culture, propagation, micropropagation 7918
- Platycerium coronarium**, *in vitro* culture, organogenesis 7039
- Platycerium superbum**, *in vitro* culture, propagation, micropropagation 1588
- Platycodon**, taxonomy, chemotaxonomy 4450
- Platycodon grandiflorus**
 cut flowers, production, USA 1529
 forcing 595
 pot plants, production, cultural methods 595
- Platynota stultana**, grapes 4926
- Plectocephalus rothrockii**, cultural methods, UK 3408
- Pleione**, taxonomy, nomenclature 998
- Pleione bulbocodioides**, tubers, composition 7941
- Pleistodontes froggatti**, pollinators, *Ficus rubiginosa* 8877
- Pleistodontes imperialis**, pollinators, *Ficus macrophylla* 8877
- Pleurothallis**, taxonomy, nomenclature 7056, 9758
- Pleurothallis atwoodii**, taxonomy, new taxa 9753
- Pleurothallis barthelemyi**, taxonomy, new taxa 2451
- Pleurothallis bitumida**, taxonomy, new taxa 9753
- Pleurothallis bothros**, taxonomy, new taxa 9753
- Pleurothallis chavezii**, taxonomy, new taxa 9753
- Pleurothallis compressa**, taxonomy, new taxa 9753
- Pleurothallis conochila**, taxonomy, new taxa 9753
- Pleurothallis grayumii**, taxonomy, new taxa 9753
- Pleurothallis imitor**, taxonomy, new taxa 9753
- Pleurothallis ingramii**, taxonomy, new taxa 9753
- Pleurothallis karenae**, taxonomy, new taxa 9753
- Pleurothallis montezumae**, taxonomy, new taxa 9753
- Pleurothallis oncoglossa**, taxonomy, new taxa 9753
- Pleurothallis perennis**, taxonomy, new taxa 9753
- Pleurothallis pilostoma**, taxonomy, new taxa 9753
- Pleurothallis psichion**, taxonomy, new taxa 9753
- Pleurothallis recula**, taxonomy, new taxa 9753
- Pleurothallis scaphipetala**, taxonomy, new taxa 9753
- Pleurothallis tintinabula**, taxonomy, new taxa 9753
- Pleurothallis turrialbae**, taxonomy, new taxa 9753
- Pleurotus**
 cultural methods
 Belgium 8725
 India 10592
- fertilizers
 manganese 3366
 nitrogen 3366
- growing media
 composition 2334, 4272, 6970, 6982
 utilization 2355
- production, South Africa 2336, 3365
- protected cultivation, cooling systems 2362
- reports, Belgium 8190
- species, assessment, India 577
- Pleurotus calypttratus**, production, containers 10591
- Pleurotus citrinopileatus**
 biochemistry, cultural methods 10593
 fructification 577
- growing media
 composition 6072
 utilization 6983
- spawn, production 4266
- Pleurotus columbinus**
 mycelium, growth 10591
 production, containers 10591
- Pleurotus cornucopiae**
 mycelium, growth 10591
 production, containers 10591
- Pleurotus cystidiosus**
 spores
 germination
 culture media 3367
 light 3367
 temperature 3367
- Pleurotus eryngii**, production, containers 10591
- Pleurotus flabellatus**
 fructification 577
- growing media, utilization 6983
- production, containers 10591
- Pleurotus florida**
 drying, equipment 579
 fructification 577
- growing media
 composition 578, 1506, 9635
 utilization 6983
- in vitro* culture, protoplasts 9634
- mycelium, growth 10591
- production, containers 10591
- quality, drying 579

Pleurotus ostreatus

- biochemistry 9636, 10598
- assessment 6073
- composition 3369, 7854
- cropping systems, intercropping 36
- cultural methods, Ethiopia 6984
- fructification 562, 10597
- fungicides, residues 3368
- growing media
 - composition 6074, 6970, 6986, 9635, 10596
 - production 6985
 - utilization 3370, 5150, 8735, 10594-10595

- in vitro* culture
 - metabolites, production 3332
 - protoplasts 9634

- intercropping, rice 36
- mycelium, growth 562, 10597-10598
- production, containers 10591
- storage, packing 10590

Pleurotus ostreatus × Pleurotus florida, production, containers 10591**Pleurotus platypus**, growing media, composition 6072**Pleurotus pulmonarius**

- flavour 2363
- growing media, utilization 10595
- production, containers 10591

Pleurotus saca, disease control, bacteria 3371**Pleurotus sajor-caju**

- biochemistry, cultural methods 10593
- composition 6972, 8722
- fructification 577
- growing media
 - composition 578, 580, 6072, 6075-6076, 9635, 9637, 10599-10600
 - utilization 6983
 - weed moulds 571
- mycelium, growth 10591
- production, containers 10591
- spawn, production 2364, 4266

Pleurotus sapidus

- growing media, utilization 4273, 6983
- spawn, production 4266

Plocaederus ferrugineus, cashews 1791, 5465**Plum pox potyvirus**

- apricots 205, 8351
- nectarines 174, 5650
- peaches 174, 5650, 6620, 8351
- plums 201-202, 205, 2023-2024, 5682-5684, 10249
- stone fruits 4719

Plumbago auriculata

- fertilizers, potassium 7072
- irrigation, frequency 7072
- planting stock, production, containers 4415

Plumbago indica, *in vitro* culture, propagation, micropropagation 7178**Plumbago zeylanica**

- pollen, development, cytology 739
- soil types 8910

Plumeria alba, plant, composition 7947**Plumeria rubra**

- flowers, development, plant growth regulators 7981
- plant, composition 7947

Plums

- anthers, dehiscence 7549
- as rootstocks
 - almonds 10090
 - apricots 1130, 1176, 10174, 10176, 10178
 - cherries 2841
 - nectarines 2841, 3840-3842, 3847
 - peaches 2841, 2947, 3841, 3844, 4827
- books 8174
- conferences 7395
- cultivars
 - anatomy 5587
 - assessment
 - Belarus 3740
 - Brazil 7405
 - Germany 1174
 - Netherlands 4851
 - Romania 3902
 - Turkey 4850

Plums cont.**cultivars cont.****assessment cont.****Yugoslavia 1175****characteristics**

- Belgium 5685
- books 989
- China 4852, 8379, 10250
- France 2026
- Japan 10250
- Russia 2025
- South Africa 7547
- UK 8378

composition 3905

- disease resistance 201-202, 2023-2024, 2982, 5682-5684, 9318, 10248-10249

flowering 4859**identification 6639**

- irregular bearing 4859
- pest resistance 1892
- plant nutrition 4857-4858

processing 9160**storage 8386****cultural methods**

- Switzerland 4711
- UK 8378

cuttings

- rooting, seasonal variation 9319
- sources, etiolation 4853
- treatment 4853, 9319

disease control**Apiosporina morbosa 2982****bacteria 3750****Brazil 2960****France 3903****Italy 9163****Switzerland 3748, 3751****USA 9323****Xanthomonas campestris pv. pruni 8383****diseases**

- books 995
- surveys, Italy 205

disorders

- books 995
- breakdown 7552
- chlorosis 2031
- gel breakdown 206
- internal breakdown 204

economics

- Chile 4675
- USA 4675

establishment, meadows 5584**fertilizers, nitrogen 204****flowers**

- development
 - assessment 7550
 - cultivars 4859, 7550
 - temperature 4859
- morphology 5688

frost, injuries 10085**fruits**

- anatomy 5587
- aroma, storage 7524
- biochemistry 2849
 - plant growth regulators 10253
- browning, storage 7524
- development
 - biochemistry 9326
 - models 72
- drop, cultural methods 8385
- flavour, storage 7524
- morphology 6639
- quality
 - cultivars 3905
 - measurement 9157
 - plant nutrition 4856
- ripening
 - biochemistry 9326
 - storage 7524
- size, plant nutrition 4856
- thinning
 - plant growth regulators 7449, 8235
 - responses 7551, 9325

hail, injuries 4717**harvesting**

- equipment 1975
- harvesting date, assessment 7553, 8386

Plums cont.***in vitro* culture**

- callus, growth 10089
- organogenesis 2029
- plant embryos 2030
- irrigation, responses 8381
- leaves, composition 4857-4858
- mycorrhizas 203, 8382
- nutrients, requirements, analysis 10252
- pest control
 - Acari 1993
 - Aculus fockeui* 7548
 - Aphididae 8384
 - Brevipalpus chilensis* 2846
 - Cydia funebrana* 3904
 - France 3903
 - Metcalfa pruinosa* 1045
 - Panonychus ulmi* 2846
 - Switzerland 3748
 - USA 1921, 9323
- pesticides, residues 7421
- pests, surveys, Chile 6516
- plant, composition 4855
- plant growth regulators
 - dichlorprop, responses 4705
 - ethephon, responses 9325
 - NAA, responses 9325
 - paclobutrazol, responses 9325
- plant nutrition 4857-4858
 - calcium 4855-4856
 - magnesium 4855-4856
 - nitrogen 2826, 4855
 - phosphorus 4855-4856
 - potassium 4855, 5687
 - surveys, Australia 9322
- plant training, systems 2981, 3747, 6640
- pollen
 - development, anatomy 2032
 - germination, cultivars 4860
- pollination, pollinators, Apidae 8237
- processing, quality, cultivars 9160
- pruning
 - responses 9321
 - systems, assessment 1178, 9320
- reproduction, physiology 7549
- roots
 - development
 - assessment 4834
 - mycorrhizas 203
 - physiology 2031
- rootstock scion relationships
 - compatibility 10251
 - growth 8380
 - yields 2027, 8381
- rootstocks
 - assessment, UK 3744
 - characteristics
 - France 1177
 - Italy 1177, 4854
 - Spain 5686
 - disease resistance 2841
 - propagation, cuttings 3741-3742
 - selection 2028
- shoots, histology 10083
- soil amendments 204, 4856
- soil pH, responses 8363
- storage
 - disease control 1179
 - diseases 7552
 - disorders 206, 7552
 - physiology 10253
 - systems
 - cold storage 8386
 - controlled atmosphere storage 206, 3629, 7524, 7552, 7562
 - temperature 206
 - wrappings 183
 - taxonomy, numerical taxonomy 5634
 - transpiration, water stress 9324
 - water stress, responses 9324

Plums × damsons, as rootstocks, apricots 1176**Plums × peaches**

- as rootstocks
 - peaches 3844, 4829
 - plums 1177

Plutella xylostella

- Brassicaceae, reviews 7709
- Brussels sprouts 10450

Plutella xylostella *cont.*

cabbages 386-387, 1334-1335, 1337,
3146, 3149, 4103, 5007, 7711,
8496, 9483

Plutonium, uptake, vegetables 6730**Poa alpina**, respiration, biochemistry 4162**Poa annua**

as cover crops
apples 8264
tomatoes 7806
as weeds
apples 1949
lawns and turf 6149, 8803
Oenothera biennis 770
pears 1949
strawberries 2064
vegetables 320

cultivars, identification 9719

Poa compressa, respiration, biochemistry 4162**Poa pratensis**

as cover crops, grapes 3967
cultivars
assessment
Japan 7907
USA 5209
identification 5214, 7908, 9719
cultural methods, China 4345
fertilizers, nitrogen 2419
herbicides
application methods 1581
injuries 6148, 6151
irrigation, requirements, determination 6152
mowing 2419, 7907
pest control
Amphimallon majalis 2427
Lepidoptera 5213
Schizaphis 5213
pesticides, residues 8812
photosynthesis, photoinhibition 6154
plant competition, *Zoysia matrella* 7910
plant nutrition, trace elements 10670
respiration, biochemistry 4162
seeds
mixtures 5214, 7908
production, cultural methods 8813
sowing
sowing date 2419
spacing 10665
shade, responses 4343-4344
species, assessment, Germany 4341
weed control 667-668, 3443, 6147-6148,
8802, 8805

Poa supina

cultivars, identification 9719
shade, responses 4344

Poa trivialis

as cover crops, peaches 9289
cultivars, assessment, USA 8799
plant competition, *Zoysia matrella* 7910
quality, assessment 8799
respiration, biochemistry 4162
shade, responses 4343

Poaceae

dried flowers, production 9654
species, assessment, UK 9654

Pochazia guttifera, tea 10015**Podosphaera leucotricha**

apples 1062, 1073, 2892, 4735, 7447,
7480, 7483, 8291, 8293
fruit crops 7479
pears 7483

Podosphaera tridactyla, apricots 3810**Pogostemon**, taxonomy, morphology 5321**Pogostemon cablin**

in vitro culture, organogenesis 4678
plant growth regulators, gibberellic acid,
responses 7147

Poinsettias

cultivars
characteristics, USA 1626
fertilizers 4396
irrigation 4396
cuttings, treatment 5264
disease control
Erysiphaceae 720
Rhizoctonia solani 719
disorders, bract necrosis 5265
growing media
composition 4393

Poinsettias *cont.*growing media *cont.*

pH 7088
growth retardation, plant growth regula-
tors 1627, 4393
nectaries 3487
pest control
arthropods 7420
Bemisia argentifolii 7954
Bemisia tabaci 1628
Bradysia coprophila 4397
Homoptera 3486
insects 7089
plant, development, growing media 51
plant growth regulators, chlormequat,
application methods 3485
pot plants
development, light 4394-4395
production, cultural methods 1627,
3485, 5265, 7087, 9779
quality, plant nutrition 9647
storage 10607
protected cultivation, pest control 7954
shoots, development, models 9780

Poland

apples
cultivars 7453
production 4725
rootstocks 4754
beetroots, cultivars 3104, 4967-4968
black currants, cultivars 7565
Capsicum, cultivars 469, 5073
cherries, production 5636
fruit crops, marketing 1055
Hedera
disease control 3482
pest control 3482
horticultural crops, cultural methods 1021
Oenothera, surveys 1687
onions, cultivars 10378
ornamental plants, marketing 1055
peaches, cultivars 4823
planting stock, production 1919
radishes, cultivars 9490
roses, cultivars 5268
strawberries, cultivars 4882, 7581, 7584
tulips, cultivars 5200
vegetables, marketing 1055

Polianthes tuberosa

bulbs, sprouting, size 10661
cut flowers
production, cultural methods 7905-
7906, 9715, 10663
quality, weed control 2416
vase life 8795, 9714
fertilizers
nitrogen 7905-7906, 9715, 10660,
10663
phosphorus 7906, 10663
potassium 7906, 10663
flowers
development, assessment 10662
initiation, biochemistry 4336
in vitro culture, metabolites, production 6138
irrigation, requirements, determination 10660
pest control, *Aphelenchoides besseyi* 4337
planting, spacing 663
planting stock, size 663
rhizomes, development, biochemistry 4336

Pollen

biochemistry
Lilium longiflorum 650
Petunia 3401
collection
apples 3890
Pyrus pyrifolia 3890
composition
Alpinia zerumbet 8020
Borago officinalis 3539
coconuts 898
Erythronium japonicum 6135
Filipendula vulgaris 10606
Lupinus polyphyllus 10606
Papaver rhoeas 10606
cytology, peas 5981

Pollen *cont.*

development

anatomy
Orchidaceae 10693
plums 2032
Prunus mume 158
assessment, *Rosmarinus officinalis* 8017
cultivars, apricots 9256
cytology, *Plumbago zeylanica* 739
histology
Cucurbita pepo 4155
Gentiana macrophylla 1685
morphology
Chinese cabbages 1343
Rhododendron 3491
temperature, tomatoes 7821
ultrastructure, *Nymphaea colorata* 4358

germination

biochemistry, calamondins 2616
boron, *Asclepias curassavica* 4455
calcium
apples 1109
Asclepias curassavica 4455
climate, *Litchi* 1751
cultivars
apricots 9259
Capsicum 8635
Litchi 1751
plums 4860
in vitro culture
Cyclamen persicum 9695
Papaver rhoeas 2396
Polygonum odoratum 7881
pummelos 837
sapodillas 9084
inhibitors, grapes 9406
light, *Cyclamen persicum* 9695
physiology, *Lilium davidii* 4326
plant growth regulators, *Hippeastrum vittatum* 2414
storage, *Litchi* 1751
temperature 7821
Capsicum 8635
Cyclamen persicum 9695
Hippeastrum vittatum 2414
Litchi 1751
Pyrus pyrifolia 8361

tests

guavas 4618
jackfruits 5452

morphology

Alpinia zerumbet 8020
Amorphophallus rivieri 8716
Cucurbita pepo 2217
dates 10873
grapes 6718
Hibiscus rosa-sinensis 2503
longans 2636
Malvaceae 8227
Ranunculaceae 2375
Rhododendron 2483
Scutellaria 772
tea 7361

storage

dates 7232, 9899
Litchi 1751
Pyrus pyrifolia 3891
sapodillas 9084
strawberries 4893
tomatoes 9609

treatment

cold, pummelos 10855
gamma radiation, dates 10873
heat, *Petunia* 9674

tubes

biochemistry, *Nicotiana glauca* 4312
composition, *Lilium longiflorum* 9705
cytology
Lilium longiflorum 7020
Nicotiana glauca 7020
development
Agapanthus africanus 3403
apricots 9259
avocados 6304
Camellia japonica 7076
cherries 8334
Cucurbita pepo 2216
Cyclamen persicum 9695
grapes 8486

Pollen cont.

tubes cont.

development cont.

Hippeastrum vittatum 2413, 2415, 10658

Lilium longiflorum 10650

peaches 7530

peas 5981

pummelos 837

sapodillas 9084

temperate fruits 9166

plant growth regulators, *Hippeastrum vittatum* 2413

ultrastructure

apricots 3812

grapes 3990

Hippeastrum vittatum 658

olives 10886

Psophocarpus tetragonolobus 4177

Viburnum 3509

Vicia faba 8602

viability

cultivars

apricots 9259

oranges 7213

pears 6632

sour oranges 7213

storage, *Pyrus pyrifolia* 3891

tests

cabbages × Chinese cabbages 9486

guavas 4618

jackfruits 5452

Petunia 9674

Pollination

biochemistry

Brassica oleracea 10454

Lilium longiflorum 9705

biology

apricots 9257

Blandfordia grandiflora 1572

cashews 9016

cherimoyas 3638

Epimeredi indica 8010

Hibiscus moscheutos 7111

Paphiopedilum villosum 8841

Petunia 2388

Phalaenopsis 10713

small fruits 7389

temperate fruits 7389

compatibility

almonds 73

apples 130

apricots 8323, 8326, 9258, 9260

avocados 803

Brassica oleracea 10454

Brussels sprouts 4114

cabbages × Chinese cabbages 9486

cherimoyas 10908

Chinese cabbages 9487

clementines 5392

Cordyline australis 10682

figs 3827

kiwifruits 10269

Litchi 1752-1753

mangoes 7332

olives 5430

oranges 5392

Papaver rhoeas 1554

pears 130

pummelos 837

Syzygium jambos 7380

Syzygium samarangense 7380

temperate fruits 7448

Vaccinium 5712

cultivars

apples 4785, 9199

avocados 3573

mangoes 7332, 10965

pears 191

persimmons 7254

plums 5685

Orchidaceae, books 1862

physiology

cocoa 4594

Petunia 608

Phalaenopsis 9763

pollinators

Apidae

apples 129, 2910, 8237, 9198

apricots 8326, 9254

Pollination cont.

pollinators cont.

Apidae cont.

avocados 55, 804-805

Capsicum 8634

cashews 9016

cherries 8237

Cucurbita pepo 5921

Disa tenuifolia 4380

kiwifruits 2997

Litchi 55, 1753, 4543

mangoes 55, 7333, 10963-10964

melons 5487, 6413

plums 8237

Prosopis velutina 2512

Rhododendron 3491

strawberries 255

temperate fruits 8236

Basiothia schenki, *Disa cooperi* 4379

Bombus terrestris, tomatoes 5123

Chiroptera, Cactaceae 9732

Colletidae, *Prosopis velutina* 2512

Diptera

carrots 9622

mangoes 10963

Elaeidobius, oil palms 7343

Elaeidobius kamerunicus, oil palms 10982

Episyrrhus balteatus, apples 2910

Eristalis tenax, apples 2910

hummingbirds, *Agapanthus praecox* 5178

Hymenoptera, *Bletilla striata* 6168

insects, apples 10136

Iridomyrmex, *Blandfordia grandiflora* 7904

Nectarinia, *Epimeredi indica* 8010

Nectarinia souimanga, *Aloe divaricata* 1591

Neozeleboria, *Chiloglottis* 7933

Orthellia, apples 2910

Pleistodontes froggatti, *Ficus rubiginosa* 8877

Pleistodontes imperialis, *Ficus macrophylla* 8877

Rhyncomyia forcipata, mangoes 55

Stephanoxis lalandi, *Sophronitis coccinea* 10714

Tetralonia nipponensis, *Bletilla striata* 6168

Trochilidae, *Sophronitis coccinea* 10714

Vespidae, figs 3827

Volucella, *Prosopis velutina* 2512

Xylocopa, *Epimeredi indica* 8010

research

cherimoyas 7264

dates 10873

kiwifruits 2996

olives 10885

pistachios 8377

Plantago ovata 9858

techniques

Annona squamosa 1775

apples 3796-3797

Capsicum 4194

cherimoyas 3638, 10908

dates 10874

kiwifruits 3914

strawberries 5736

Vanilla planifolia 2521

Pollution

acid rain

apples 3776

horticultural crops 5560

peas 5964

Phaseolus vulgaris 3197, 9522

vegetables 1263, 8493, 9422

aldehydes, *Nerium oleander* 7116

aluminium

carrots 9439

garlic 1278

onions 9439

ammonia, ornamental woody plants 8843

cadmium

apples 2867

aubergines 10535

cabbages 1324

Coriandrum sativum 764

cucumbers 9509, 10467

edible fungi 6969

Pollution cont.

cadmium cont.

garlic 8515

gooseberries 7568

kale 5042

lettuces 3125, 10413

okras 2269

ornamental plants 8739

peas 6859, 6869

Phaseolus vulgaris 5042, 10467

reviews 4682

spinach 1293, 8515

caesium

cabbages 5001

kohlrabi 5001

lettuces 1307

vegetables 4008, 4937

reviews 4936

carbonyl sulfide, cabbages 5862

cement dust

Momordica charantia 465

okras 465

chromium, lettuce 10413

cobalt, onions 1285

copper

edible fungi 6969

gooseberries 7568

Vaccinium myrtillus 6663

dusts

apples 8262

cherries 8262

pears 8262

exhaust gases

cucumbers 9505

horticultural crops 1029

lettuces 362

ornamental woody plants 10717

Rhododendron oomurasaki 3489

Tilia 9860

vegetables 4007

fallout

cabbages 5001

kohlrabi 5001

fluorine

carrots 9439

mangoes 3677

onions 9439

tea 7354

free radicals, fruit crops 2815

heavy metals

apples 8263

Capsicum 9561

carrots 550

dates 850

edible fungi 4265

essential oil plants 9815

Lavandula angustifolia 8011

lettuces 362, 10412

medicinal plants 9815

Mentha arvensis 5311

Mentha piperita 5311

mushrooms 1499

Papaver somniferum 3550

spice plants 9815

Talinum triangulare 6968

tomatoes 493

vegetables 4007, 5580, 5771

Vicia faba 2240

hydrocarbons

carrots 9439

onions 9439

hydrogen sulfide, tomatoes 9579

industrial wastes

cucumbers 3170

okras 464

vegetables 7644

lead

carrots 361

cucumbers 1355, 5894-5895, 9509

edible fungi 6969

gooseberries 7568

lettuces 361

onions 2129

ornamental woody plants 10717

plants 2129

Populus nigra var. *italica* 740

magnesium, onions 1285

mercury

onions 1285

radishes 5011

Pollution *cont.*

- nickel
 - cabbages 5863
 - kale 5042
 - lawns and turf 5863
 - Phaseolus vulgaris* 5042
 - Vaccinium myrtillus* 6663
- nitrogen oxides
 - fruit crops 10065
 - lettuces 10411
 - ornamental woody plants 10065
 - peas 9540
 - Phaseolus vulgaris* 1376
- oils, radishes 9491
- ozone
 - cucumbers 9505
 - Cucurbita pepo* 9504
 - fruit crops 2815
 - grapes 1230
 - horticultural crops 5561
 - peaches 1999
 - peas 438
 - Phaseolus vulgaris* 421, 1377-1379, 2225, 3196, 5043, 5933, 7744, 9520-9521
 - radishes 8558
 - Sedum album* 7924
 - spinach 2144
 - tomatoes 7795, 9578
 - Vicia faba* 2144
 - watermelons 9962
- peroxyacetyl nitrate, horticultural crops 1029
- polychlorinated biphenyls, vegetables 6729
- radionuclides
 - Brassica* 6730
 - cabbages 5000
 - edible fungi 3329, 7845
 - grapes 1442
 - lettuces 1307, 4072
 - onions 6730
 - radishes 6799
 - tomatoes 1442
 - vegetables 2107, 4008-4009, 6730
- sodium chloride, guavas 915
- strontium, lettuce 1307
- sulfur dioxide
 - Capsicum* 10525
 - cashews 9015
 - cucumbers 3170
 - fruit crops 10065
 - ornamental woody plants 10065
 - radishes 5882
 - tomatoes 5093
 - Vicia faba* 3203
 - watermelons 9962
- tannery waste, onions 2137
- tolerance
 - cherries 7441
 - pears 7441
 - walnuts 7441
- uranium
 - cabbages 316
 - lettuces 316
 - onions 316
 - Phaseolus vulgaris* 316
 - spinach 316
- zinc, *Phaseolus vulgaris* 8591

Polyacetylenes, exudation, *Tagetes patula* 4449**Polyacrylamide**

- utilization
 - soil amendments
 - beetroots 9418
 - Petroselinum crispum* 9418
 - Phaseolus vulgaris* 9418

Polyamines

- biochemistry
 - carrots 3316
 - Cucurbita pepo* 6827
 - tomatoes 10569
- metabolism
 - calcium, carrots 3316
 - carbon dioxide, cucumbers 6829
 - disorders, grapes 4918
 - flowering, strawberries 254
 - germination, *Vicia faba* 10497
 - grafting, grapes 260
 - in vitro* culture
 - aubergines 485

Polyamines *cont.*

- metabolism *cont.*
 - in vitro* culture *cont.*
 - chicory × endives 1303
 - nodulation, *Phaseolus vulgaris* 2228
 - plant growth regulators
 - apples 123
 - bananas 8124
 - potassium, grapes 275
 - ripening, *Pyrus pyrifolia* 2016
 - rootstock scion relationships, grapes 260
 - salinity
 - citranges 8064
 - mandarins 8064
 - seasonal variation, apples 124
 - senescence
 - carnations 1535-1536
 - roses 6207
 - soil pH, *Phaseolus vulgaris* 2228
 - storage
 - cherimoyas 8109
 - Cucurbita pepo* 417, 5041
 - mandarins 7226
 - temperature, cucumbers 6829
- responses
 - apples 123
 - chicory 6776
 - Phaseolus vulgaris* 1376

Polygonum aviculare

- as weeds
 - Asparagus* 7763
 - cabbages 9475
 - Pimpinella anisum* 1675

Polygonum capitatum, seeds, development, embryology 619**Polygonum lapathifolium**, as weeds, vegetables 320**Polygonum odoratum**

- pollen, germination, *in vitro* culture 7881
- production possibilities, Australia 10764

Polygonum tinctorium, *in vitro* culture, biochemistry 6255, 8001**Polypeptides**, metabolism, salinity, radishes 2192**Polyphagotarsonemus latus**

- Capsicum* 477, 5078, 7777
- Citrus* 3599
- cucumbers 3285
- tomatoes 3285

Polysaccharides

- biochemistry
 - chicory 9457
 - radishes 6804
 - tomatoes 3306
- biosynthesis, carrots 5140
- characterization
 - Alcea rosea* 8894
 - algae 779, 8934
 - Baccaurea sapida* 7373
 - Borassus flabellifer* 8024
 - cabbages 4122
 - carrots 6047
 - Cassia spectabilis* 6214
 - Hypnea musciformis* 5352
 - Polianthes tuberosa* 6138
 - vegetables 4019

- composition
 - algae 3555, 6295
 - Amomum maximum* 1661
 - apples 135
 - Borago officinalis* 3539
 - chicory 4983
 - Gracilaria* 1700
 - Gracilariopsis lemaneiformis* 1701
 - grapes 8490
 - Jerusalem artichokes 4983
 - Lycium barbarum* 3546
 - Nicotiana glauca* 7879
 - persimmons 4561
 - pineapples 2737
 - roses 5275

extraction

- celery 4256
- Hypnea musciformis* 5352

metabolism

- biochemistry, blackberries 8406
- environment, *Hypnea pannosa* 4471
- germination, peas 436
- in vitro* culture
 - roses 5276

Polysaccharides *cont.*

- metabolism *cont.*
 - in vitro* culture *cont.*
 - Solieria chordalis* 1707
 - Zinnia elegans* 3423
 - irrigation, pomegranates 10898
 - maturity, pears 8373
 - phosphorus, *Panax pseudoginseng* 7171
 - plant growth regulators
 - Phaseolus vulgaris* 6853
 - pomegranates 10898
 - pollution, *Phaseolus vulgaris* 9522
 - potassium, *Cymbidium sinense* 1604
 - ripening
 - bananas 6381
 - kiwifruits 3915, 10274
 - melons 9968
 - persimmons 5436, 9919
 - rootstock scion relationships, apples 4805
 - seasonal variation
 - algae 3325
 - Calliblepharis jubata* 10806
 - storage
 - apples 9219
 - Asparagus* 6883
- production
 - cultural methods
 - Eucheuma isiforme* 10808
 - Gracilaria* 10809
 - in vitro* culture, edible fungi 3332

Polystachya, taxonomy, nomenclature 7056**Polystichum adiantiforme** (see *Arachniodes adiantiformis*)**Polystigma rubrum**, fruit crops 7479**Pome fruits**

- disease control
 - Erwinia amylovora* 4720
 - Italy 4720
- fungicides, responses 69
- pest control
 - Cydia pomonella* 1056, 2847
 - Eriosoma lanigerum* 66
 - Europe 2844
 - Tetranychus urticae* 66
- storage, diseases 9223

Pomegranates

- cultivars
 - characteristics
 - China 2658
 - India 8994
 - composition 2661, 5441
- cuttings
 - development
 - humidity 8995
 - temperature 8995
 - treatment 5440
- disorders
 - internal breakdown 874
 - sunscaud 874
- flowers
 - development
 - assessment 3632, 10899
 - irrigation 4563
- frost, resistance, cultivars 2659
- fruits
 - composition 2661
 - quality
 - covers 6366
 - cultivars 5441
 - plant growth regulators 1767
 - pruning 873
 - thinning 3633
 - set, irrigation 4563
 - size
 - plant growth regulators 1767
 - pruning 873
 - thinning, plant growth regulators 3632
- harvesting, harvesting date, assessment 2662
- irrigation
 - frequency 3630
 - responses 4562-4563, 10898
- pest control
 - Apomyelois ceratoniae* 2660
 - Deudorix isocrates* 6365
 - Deudorix livia* 6366
- plant growth regulators, chlormequat, responses 10898

Pomegranates cont.

- pruning, responses 873-874
- salinity, responses 1766, 3631
- seeds, composition 2663
- storage
 - systems
 - cold storage 2662, 5442
 - controlled atmosphere storage 5442

Pometia pinnata, surveys, Vanuatu 10904**Poncirus**

- leaves, biochemistry 8937
- taxonomy
 - chemotaxonomy 8937-8938
 - cytotaxonomy 4491

Poncirus polyandra, taxonomy, chemotaxonomy 8937**Poncirus trifoliata**

- as rootstocks
 - Citrus* 3591, 7197, 9883
 - Citrus hassaku* 5367
 - grapefruits 7196
 - limes 10833
 - mandarins 10832
 - oranges 828, 7196
 - pummelos 2593, 10859
- disorders, chlorosis 3589
- in vitro* culture
 - responses
 - nitrogen 8943
 - sugars 8943
- plant, anatomy 7197
- plant nutrition, iron 3589
- rootstocks
 - identification 2588
 - pest resistance 2589

Ponthieva, taxonomy, nomenclature 7056**Popillia japonica**, lawns and turf 9726-9728**Poppy** (see *Papaver*)**Populus**

- pest control, *Plastosciaria pernicios* 4390
- plant extracts, application, *Pleurotus ostreatus* 3370

Populus nigra, plant, injuries, surveys 2463**Populus nigra var. italica**

- leaves, composition 740
- plant, size, assessment 6184
- pollution, lead 740

Portugal

- apples, pests, surveys 5612
- garlic, production 5801
- onions, production 5801

Portulaca, as weeds, okras 2270**Portulaca grandiflora**

- in vitro* culture
 - biochemistry 4367
 - responses, light 4367
- leaves, histology 9745
- photosynthesis, CAM pathway 7923

Portulaca oleracea 7702

- as weeds
 - apples 7467
 - cabbages 7702
 - Capsicum* 7773
 - carrots 7834
 - melons 9041
 - onions 9442
 - pears 7467
 - watermelons 9041

Pot plants

- bonsai
 - ornamental woody plants 5260
 - wild plants 6080
- cultivars
 - Anthurium* 5180
 - chrysanthemums 3386
 - Dendrobium nobile* 8840
 - Lilium* 4328
 - Viola cornuta* 10636
 - Viola wittrockiana* 10636
- development
 - cultivars, chrysanthemums 6094
 - light
 - chrysanthemums 6094
 - poinsettias 4394-4395
 - photoperiod, *Euphorbia corollata* 9805
 - plant growth regulators, *Capsicum* 9682

Pot plants cont.

development cont.

- temperature
 - Begonia hiemalis* 628
 - chrysanthemums 6094
- disease control, fungi 586
- economics
 - Argentina
 - Cyclamen persicum* 4294
 - Petunia* 4294
 - growing media, characteristics 1519
 - handling, ornamental plants 10607
 - longevity
 - Campanula carpatica* 5575
 - Lilium* 4328
 - Rhipsalidopsis gaertneri* 9746
 - roses 4406
 - marketing
 - Australia, wild plants 2368
 - Germany 3379
 - Netherlands 1528
 - production
 - Australia, wild plants 2368
 - cultural methods
 - Acacia* 9793
 - Aster novi-belgii* 1549
 - Barleria cristata* 5278, 7104
 - Begonia* 627
 - Begonia cheimanthus* 5194
 - Brachychiton* 677
 - Campanula carpatica* 7872
 - Campanula isophylla* 7873
 - Chamaerops humilis* 8831
 - chrysanthemums 4285
 - Clivia miniata* 7027
 - Codiaeum* 7920
 - Cyclamen* 3426
 - Cyclamen persicum* 630, 3425
 - Dieffenbachia* 7920
 - Epipremnum pinnatum* 4364, 6158
 - Ficus benjamina* 8825
 - Fuchsia* 7971
 - Gerbera* 7872
 - Hydrangea macrophylla* 3481, 8850
 - Kalanchoe* 3451
 - Malvaviscus arboreus* 5288
 - models 627
 - Opuntia microdasys* 684-685
 - ornamental bulbs 6121
 - ornamental foliage plants 5219
 - ornamental herbaceous plants 595, 10609
 - ornamental plants 1513
 - Phalaenopsis* 7940
 - Philodendron bipinnatifidum* 8831
 - poinsettias 1627, 3485, 5264-5265, 7087, 9779
 - Radermachera sinica* 4368
 - Rhododendron obtusum* 5266
 - roses 725, 6198
 - Saintpaulia* 725
 - Spathiphyllum* 7925
 - Spathiphyllum patinii* 1596
 - Tagetes* 6120
 - Viola* 10636
 - protected cultivation, heating systems 2371
 - quality
 - assessment 9652
 - ornamental plants 1513
 - roses 9788
 - cultivars, *Rhipsalidopsis gaertneri* 9746
 - cultural methods, poinsettias 9779
 - fertilizers
 - Alocasia regina* 7042
 - Dendrobium* 1606
 - Phalaenopsis* 1606
 - growing media
 - Dendrobium* 1606
 - Phalaenopsis* 1606
 - light, *Eustoma grandiflorum* 9685
 - plant growth regulators
 - Bougainvillea spectabilis* 7075
 - roses 4406
 - plant nutrition
 - Impatiens* 9647
 - poinsettias 9647
 - roses 9647
 - shade, *Cyclamen persicum* 3425

Pot plants cont.

quality cont.

- temperature, *Rhipsalidopsis gaertneri* 9746
- reports, Finland 6485
- soilless culture, disease control 586
- species, *Acacia* 9793
- storage, ornamental plants 10607
- transport, *Lilium* 4328
- utilization, interior decoration 7857

Potassium

application methods

- peaches 2956
- pears 2956
- plums 5687
- raspberries 3922
- biochemistry, *Vicia faba* 1384
- composition
 - apples 2921-2922, 7473, 9203
 - bananas 9935
 - black currants 7566
 - broccoli 9417
 - cabbages 2183, 9417
 - carrots 9417
 - cherries 1134, 2933
 - Coriandrum sativum* 10748
 - dates 848
 - edible fungi 1497
 - Ficus* 10202
 - grapes 1253, 3050, 9391
 - Hericium erinaceus* 1503
 - horticultural crops 1052
 - Ilex paraguariensis* 10788
 - Juglans* 10261
 - kiwifruits 2993
 - Lentinula edodes* 5149
 - mangoes 1836
 - olives 3619
 - onions 9417
 - Osmunda japonica* 1497
 - Pancreas maritimum* 771
 - plums 4855
 - radishes 9417
 - Rubus* 1196, 9348
 - Syzygium jambos* 9110
 - tomatoes 8675
 - walnuts 8392

deficiency

- apples 3783
- Boehmeria nivea* 7185-7186
- cucumbers 7734
- grapes 275
- mangoes 7325
- olives 8100
- Pyrus* 2968
- Rhododendron* 4400
- roses 6200
- vegetables 10362

determination

- guavas 2717
- oil palms 9060

fertilizers

- apples 1090, 1122, 1954-1955, 2884-2886, 4772, 7477, 8280, 10166
- aubergines 8642, 9570
- bananas 883, 3648, 7274, 9008
- black currants 6647
- Borassus flabellifer* 1856
- cabbages 2183, 5004, 9477, 10438
- Capsicum* 3244, 4187, 5074, 5076, 9564
- carrots 4944, 5135, 6956, 8703
- cashews 1793, 2680, 9940, 9942-9943, 10913
- cauliflowers 4944
- Chamaelirium* 8869-8870
- cherries 1135, 2934, 3818, 6599
- coconuts 5473, 9023
- Codiaeum* 7920
- coffee 10925
- Coriandrum sativum* 3083, 3522, 4434
- cucumbers 6819, 9508
- Cucurbita moschata* 3169
- Curcuma longa* 9818
- Cypripedium macranthum* 10704
- Dieffenbachia* 7920
- Dioscorea deltoidea* 2545
- Elettaria cardamomum* 6260
- figs 170, 1142
- garlic 1276, 3083, 4950, 6747

Potassium cont.

fertilizers cont.

Gladiolus 9700
 grapes 3033, 3050, 3052, 6704, 10331
 guavas 5493, 6426
Hevea 2748
Hibiscus rosa-sinensis 1648
Ilex vomitoria 6190
Jasminum auriculatum 7953
 kiwifruits 2992
 kohlrabi 4993, 8531
 lawns and turf 2423, 4350
 leeks 9435
 lettuces 4993-4994, 8531
Lilium leichtlinii 6885
Litchi 855, 1748, 4540
 mangoes 1827, 9979
Maytenus aquifolium 5341
 melons 6416, 8143, 10934
Metroxylon sagu 979
Moringa oleifera 8718
 mushrooms 6065
 nectarines 3862
Nymphoides indica 5215
 okras 510, 3228
 olives 3625
 onions 3083, 4959, 5822, 7667, 8506
 ornamental woody plants 7072
 pawpaws 7345
 peaches 2950, 2956, 3863, 4833, 9290
 pears 2956, 8364
Phalaenopsis 7940
 pineapples 933, 2734
Polianthes tuberosa 7906, 10663
Radermachera sinica 4368
 radishes 8560
Rosa damascena 9835
 roses 6200, 7960
 satsumas 3611, 10840-10841
Silybum marianum 8042
 spinach 1294
Stevia rebaudiana 8051
 strawberries 1210, 3942, 4885, 5731, 10295
 tea 8166, 11006
Telfairia occidentalis 10469
 tomatoes 502, 510, 3276, 3283, 4225, 4944, 5100, 5125, 6024, 6926, 7800, 7807, 8660, 8672, 9595
Trichosanthes dioica 6815
Vaccinium corymbosum 3009
 vegetables 4942, 4948, 10362
Vicia faba 431
Zingiber officinale 7136

metabolism

circadian rhythm, cucumbers 409
 climate, grapes 3054
 cultivars
 cabbages 5866
 grapes 3043
 plums 4857-4858
 tomatoes 4224
 cultural methods
 apples 8304
 chrysanthemums 605
 grapes 3038, 6698
 peaches 9291
 development
 carambolas 6464
 melons 5490
 plums 9326
 diseases, okras 5991
 disorders
 apples 1122
 avocados 4485
 grapes 4918
 mangoes 7331
 electricity, tomatoes 9606
 environment, grapes 3043
 fertilizers
 apples 2885
 cucumbers 6818
 grapes 10331
 mandarins 5381
 growing media, *Cupressus sempervirens* 9772
 in vitro culture
 cucumbers 4129
 Malus 1103

Potassium cont.

metabolism cont.

in vitro culture cont.

tomatoes 3302
 intercropping, mangoes 10950
 iron, *Malus* 1103
 irregular bearing, apples 2913
 irrigation
 apples 1956
 Cotoneaster dammeri 8873
 Forsythia ovata × *Forsythia europaea* 8873
 olives 5425
 oranges 4499
 pomegranates 10898
 tomatoes 3266
 light, *Cupressus sempervirens* 9771
 maturity
 Asparagus 6880
 bananas 6383
 mulching, raspberries 8408
 mycorrhizas
 Asparagus 10512
 Citrus limonia 8060
 Cymbopogon winterianus 7141
 mandarins 8060
 Tagetes erecta 7013
 Zinnia elegans 7013
 nitrogen
 apples 6561
 cabbages 4097, 5866
 Capsicum 8628
 cauliflowers 4098
 peaches 2954
 pears 2954
 Vaccinium ashei 2051
 pH, kohlrabi 378
 phosphorus
 peaches 2955
 pears 2955
 tomatoes 3281
 Ziziphus sativa 3692
 plant growth regulators
 Pistacia lentiscus 2576
 pomegranates 10898
 ripening
 melons 5490
 plums 9326
 rootstock scion relationships
 cherries 4812
 grapes 2077, 2079, 3975, 7603, 8465
 limes 10826
 oranges 3584
 peaches 3844, 5654
 pistachios 3900
 tomatoes 8656
 watermelons 9039
 salinity
 Annona squamosa 6372
 Capsicum 5998, 8627-8628
 guavas 9050
 Mesembryanthemum crystallinum 5244
 olives 2650
 onions 3092
 Phyllanthus emblica 2779
 tomatoes 513, 3266
 Ziziphus rotundifolia 11018
 seasonal variation
 apples 4773
 Asparagus 3226
 peaches 10213
 Protea 741
 Spondias purpurea 2781
 Vaccinium 3008
 walnuts 8391
 Ziziphus sativa 11016
 sex, spinach 8523
 soil amendments, avocados 3571
 soil compaction, *Cymbopogon winterianus* 7141
 soil pH, *Vaccinium* 1200
 soil water, grapes 3054
 soilless culture
 tomatoes 507, 4222
 Vaccinium 3008
 storage, apples 4732
 temperature
 cucumbers 4131
 vegetables 5772

Potassium cont.

metabolism cont.

water stress, tomatoes 9603
 waterlogging, grapes 2077
 zinc
 Hibiscus rosa-sinensis 1648
 lemons 7205
 plant nutrition
 apples 1954, 4753, 8278, 10166-10167
 apricots 9238
 blackberries 10279
 Boehmeria nivea 7185
 Brassica campestris 3110, 10445
 Brassicaceae 7703
 broccoli 2182
 cabbages 1325
 cashews 1794
 celery 8710
 chicory 4982
 coconuts 5471, 9950
 coffee 5479
 cucumbers 8568-8570
 Cupressus arizonica 1621
 Cymbidium sinense 1603-1604
 dates 7231
 figs 170
 Fuchsia coccinea 1546
 grapes 274, 3031, 3049
 Gypsophila paniculata 6112
 Ilex vomitoria 6190
 lawns and turf 2423
 lettuces 365
 Litchi 4540, 4542
 mandarins 3588
 mangoes 1827, 7325, 9979, 10953, 10955
 melons 9043
 Ocimum basilicum 8016
 olives 863
 onions 2133
 oranges 1723
 Panax pseudoginseng 7171-7172
 pears 1164
 Petunia 1546
 Phaseolus vulgaris 2229
 plums 4855, 5687
 radishes 6799
 Rosa damascena 7148
 satsumas 10842
 spinach 3110, 4055
 strawberries 3942, 5729, 10295
 tomatoes 3282, 5101, 6017
 tulips 7900
 Vaccinium corymbosum 10283
 requirements
 analysis
 apples 8279
 cabbages 4094
 grapes 6704
 oranges 3586
 peaches 2000
 Spondias purpurea 2781
 assessment, temperate fruits 2843
 responses
 apples 1957
 carrots 8704
 Chinese cabbages 6786
 grapes 278, 6719
 tangors 5397
 translocation, tomatoes 4224
 uptake
 Andrographis 5332
 apples 106, 2864, 2870
 Brassica 1332
 Capsicum 2279
 cherries 1135
 grapes 2870, 3033, 3041-3042
 Hibiscus sabdariffa 9865
 Impatiens 4307
 lettuces 1307, 4996
 Lilium leichtlinii 10518
 mangoes 1827
 melons 909, 1815
 Metroxylon sagu 979
 Moringa oleifera 8718
 Nyssa sylvatica 6230
 onions 5822
 oranges 3607
 ornamental plants 3376
 peaches 2950

Potassium cont.

uptake cont.

- Quercus rubra* 6230
- radishes 4124, 5010
- raspberries 3922
- salinity 3631
- strawberries 5729
- tomatoes 1448, 4224, 7790, 9589, 10550
- vegetables 1330, 4942
- Vicia faba* 2241
- Ziziphus mauritiana* 1853
- utilization, disease control, cucumbers 1358

Potato X potexvirus, tomatoes 1314**Potato Y potyvirus**

- Capsicum* 2280
- tomatoes 1314

Potatoes, as rootstocks, tomatoes 10545**Potentilla fruticosa**

- fertilizers 6187
- planting stock, production, cultural methods 3466

Potentilla neumanniana

- irrigation, requirements, determination 6152

- utilization, ground cover plants 6152

Pots, types, lettuce 4990**Poultry manure**

utilization

fertilizers

- bananas 5459
- Brassica chinensis* 8550
- cabbages 4095
- Capsicum* 473
- carrots 5135
- Citrus* 5378
- leeks 4095
- satsumas 10840
- tomatoes 3276, 4219
- growing media
- lettuces 2162
- mushrooms 567, 3345
- mulches, lawns and turf 2424
- soil amendments
- cabbages 380
- lawns and turf 2424
- tomatoes 7792

Pouteria lucuma, *in vitro* culture, anthers 10025**Pouteria sapota**, research, Guatemala 11026**Praseodymium**, fertilizers, vegetables 5868**Prasophyllum gracile**, taxonomy, morphology 7065**Prasophyllum macrostachyum**, taxonomy, morphology 7065**Prasophyllum paulinae**, taxonomy, new taxa 7065**Pratylenchus**

coffee 5475

Zingiber officinale 10753**Pratylenchus goodeyi**, bananas 9005**Pratylenchus jordanensis**, apples 2894**Pratylenchus penetrans**

- grapes 7599
- ornamental woody plants 8847
- strawberries 249

Pratylenchus vulnus

- cherries 1132
- peaches 5657
- roses 1631

Primula, plant, development, growing media 51**Primula obconica**, disease control, *Erwinia carotovora* subsp. *carotovora* 3402**Primula saxatilis**, propagation, techniques 4296**Primula vulgaris**

- growing media
- amendments 2813
- composition 2813

Pritchardia hildebrandii, propagation, techniques 2430**Pritchardia thurstonii**, propagation, techniques 2430**Processing**

quality

- assessment, cucumbers 2222
- herbicides
- pumpkins 2201
- squashes 2201

Promenaea, taxonomy, nomenclature 7056**Propagation** (see Air layering; Budding;

- Bulbs; Corms; Cuttings; Grafting; Layering; Rhizomes; Seeds; Stooling; Suckers; Tubers)

Prosopis chilensis, planting stock, production, containers 3467**Prosopis velutina**

pollination

pollinators

- Apidae 2512
- Colletidae 2512
- Volucella 2512

Prostanthera incisa, cuttings, rooting, carbon dioxide 4388**Protea**

- cut flowers, quality, disorders, reviews 4427

- disorders, leaf blackening 4427

- nutrients, requirements, analysis 737, 741

Protea compacta, plant water relations, physiology 1655**Protea neriifolia**

- cut flowers, harvesting 9809
- wild plants, ecology 9809

Protea repens

- cut flowers, harvesting 9809
- wild plants, ecology 9809

Protea susannae, plant water relations, physiology 1655**Proteaceae**, soilless culture, cultural methods 8846**Protected cultivation** (see also

Greenhouses)

- books, horticultural crops 991

carbon dioxide

- chrysanthemums 605
- horticultural crops 1037, 1039
- ornamental plants 4275
- strawberries 1208, 6674
- tomatoes 1038, 8659

cladding

Capsicum 2226*Phaseolus vulgaris* 2226

cooling systems

Pleurotus 2362

tomatoes 1443

cultivars

- aubergines 9569
- Capsicum* 5992, 9556
- carnations 3382
- celery 6051
- Chinese cabbages 9474
- chrysanthemums 10618
- cucumbers 7727
- Gerbera* 8751
- grapes 1234
- melons 1806
- peaches 1147
- roses 5268, 8856
- strawberries 2054-2055, 5724
- tomatoes 1432, 8648, 10540
- Viola tricolor* 10637

cultural methods

- chrysanthemums 10618
- cucumbers 1356, 3496
- grapes 1235
- greenhouse crops 1521
- Ocimum basilicum* 5315
- raspberries 10281
- roses 3496
- strawberries 3941, 5724
- tomatoes 3496, 4213
- vegetables 4010, 6736

disease control

Campanula carpatica 7872*Capsicum* 3241

Chinese cabbages 3145

cucumbers 4140

Gerbera 7872

grapes 1241

lettuces 7690

tomatoes 3287, 3290, 6929, 7811-

7812

diseases, tomatoes 8677

economics

grapes 2084

roses 3495

tomatoes 2297, 9581

energy requirements, roses 3495

equipment, tomatoes 1445, 7797

Protected cultivation cont.

fertilizers

- cucumbers 4137-4138
- lettuces 3128
- melons 10934
- roses 5272
- strawberries 243, 5731
- tomatoes 3279, 4219

growing media

- Angelica archangelica* 1672
- roses 6197
- strawberries 5724

harvesting date

- melons 4610
- satsumas 10857

heating systems

- Capsicum* 2226
- grapes 264
- Ocimum basilicum* 5934
- Pelargonium hortorum* 9672
- Phaseolus vulgaris* 2226, 5934
- pot plants 2371
- tomatoes 494, 497-498, 2296, 4212

humidity

- apples 103
- Gerbera* 8751
- Pelargonium zonale* 6102
- roses 8858
- vegetables 7645

irrigation

- apples 96
- aubergines 7783
- cucumbers 7733
- greenhouse crops 2816
- strawberries 243
- tomatoes 6917

light

- Angelica archangelica* 1672
- Brassica chinensis* 8553
- Capsicum* 478
- Gerbera* 8751
- ornamental plants 4275
- roses 3494
- strawberries 3024, 5723, 9364, 10292-10293
- tomatoes 496, 532, 5116
- vegetables 4012, 7645

microclimate

- chrysanthemums 2383
- roses 3500
- tomatoes 2295, 2297

models

- cucumbers 5094
- tomatoes 5094

mulching

- aubergines 9562
- Capsicum* 3239-3240, 9562
- carnations 10613-10614
- peaches 10218

pest control

- Capsicum* 3242, 4192, 7649, 8632
- cherries 6601
- cucumbers 522, 2208, 6824-6826, 7649
- culinary herbs 6083
- grapes 1241
- greenhouse crops 8224
- lettuces 7690
- melons 2708
- ornamental plants 1525, 4277, 6083-6084, 6515
- poinsettias 7954
- roses 727, 3495, 7963
- strawberries 243, 6676
- tomatoes 522, 2308, 3292, 4231-4232, 7649, 7814, 8679
- vegetables 5777, 10365

pests

- Capsicum* 8633
- tomatoes 3291

plant nutrition

- carnations 598
- horticultural crops 323
- oranges 6329
- tomatoes 8668, 8683

plant training

- Capsicum* 3243
- grapes 1234
- melons 3672
- peaches 3854, 9292
- plant water relations, tomatoes 8683

Protected cultivation cont.

- planting
 - planting date
 - Capsicum* 9556
 - Lilium longiflorum* 3432
- planting stock, raspberries 10281
- plastic film, strawberries 5722
- plastic tunnels, cabbages 3140
- pollination
 - Capsicum* 8634
 - melons 6413
- pruning, peaches 1147
- shading
 - carnations 10613-10614
 - Ficus pumila* 725
 - roses 725
 - Saintpaulia* 725
 - tomatoes 496, 537, 1443-1444
- soil temperature, *Capsicum* 3243
- spacing
 - carnations 10613
 - raspberries 10281
- systems
 - assessment, horticultural crops 9145
 - greenhouses
 - cabbages 5864
 - Cyclamen persicum* 4294
 - Gerbera* 8751
 - grapes 2103
 - horticultural crops 7411, 8216
 - lettuces 8534
 - oranges 10838
 - ornamental plants 4275
 - Petunia* 4294
 - Phaseolus vulgaris* 5044
 - spinach 8517
 - tomatoes 1456
 - growth chambers, *Volvariella volvacea* 10604
 - high tunnels, tomatoes 1895
 - nets
 - Chinese cabbages 10432
 - vegetables 9423
 - netting, cabbages 5864
 - plastic film
 - Aralia cordata* 1495
 - broccoli 9488
 - Capsicum* 2280
 - grapes 4912
 - horticultural crops 1021, 7412
 - melons 1814, 3668
 - Rumex acetosa* 2273
 - spinach 7676
 - strawberries 5726
 - Urtica dioica* 8929
 - plastic tunnels
 - apples 9179
 - Asparagus* 9147
 - aubergines 483
 - cabbages 5864
 - horticultural crops 1895, 7411, 8216
 - lettuces 10414-10415
 - melons 9147
 - Ocimum basilicum* 5934
 - peaches 3854
 - Petroselinum crispum* 747
 - Phaseolus vulgaris* 5934
 - radishes 9489
 - strawberries 5724-5726, 9147
 - tomatoes 6915, 9147
 - vegetables 317
 - row covers 9581
 - Aralia cordata* 1495
 - chicory 356
 - Chinese cabbages 9474
 - endives 356
 - horticultural crops 1895, 7411
 - lettuces 7684
 - melons 1814, 4609
 - spinach 8516
 - tomatoes 1446
 - vegetables 318
 - watermelons 2702
 - sustainability, horticultural crops 4686
- temperature
 - Allium neapolitanum* 5203
 - apples 96
 - chrysanthemums 6095
 - Gerbera* 8751
 - Gypsophila paniculata* 3416

Protected cultivation cont.

- temperature cont.
 - Ipomoea aquatica* 4264
 - Phaseolus vulgaris* 9523
 - satsumas 10857
 - spinach 3107, 8516
 - strawberries 3024
 - tomatoes 4211
 - vegetables 4012, 5772, 7645
 - Viola tricolor* 10637
- transpiration
 - cucumbers 5094
 - tomatoes 5094
- ventilation, *Phaseolus vulgaris* 9523
- Proteins**
 - biochemistry
 - Hevea* 2750, 4642
 - peas 453, 4171
 - pumpkins 4144
 - tomatoes 5120, 6938
 - Tradescantia* 7053
 - biosynthesis
 - carrots 8704
 - peas 10508
 - characterization
 - Angelica dahurica* 6274
 - avocados 10820
 - beetroots 2142
 - Brazil nuts 9108
 - Cactaceae 6155
 - Capparis masaiikai* 1697
 - carobs 4489
 - carrots 552, 6046, 6050, 6274
 - celery 6960
 - Couroupita guianensis* 9108
 - Cucurbita pepo* 10475
 - Dipteryx alata* 9106
 - Flammulina velutipes* 4271
 - grapes 8433
 - Lecythis zabucaya* 9108
 - Lilium longiflorum* 2408
 - melons 1808
 - Nicotiana alata* 7010
 - oranges 6331
 - peas 3221, 4173, 9542
 - radishes 10458
 - spinach 3112, 4975, 5841
 - strawberries 247
 - tomatoes 552, 3296, 5117
 - composition
 - Agave* 10767
 - almonds 7450
 - Aloe arborescens* 10774
 - Aloe barbadensis* 10774
 - Aloe saponaria* 10774
 - Amaranthus* 4257
 - Amomum maximum* 1661
 - Anemia phyllitidis* 4362
 - Annona coriacea* 8110
 - apples 6583
 - apricots 9264
 - Auricularia polytricha* 3355
 - broccoli 5859
 - Capsicum* 7832
 - carrots 6049
 - cauliflowers 5859
 - Cookeina sulcipes* 3357
 - Cucumeropsis edulis* 2713
 - Cucurbita pepo* 5921
 - Cucurbitaceae 10484
 - Dryopteris filix-mas* 4362
 - edible fungi 1497, 3331
 - Ficus* 10202
 - grapes 10575
 - guavas 7832
 - Hemerocallis fulva* 6522
 - Hevea* 949
 - Iris* 6522
 - Momordica charantia* 8587
 - mushrooms 3344
 - Nicotiana alata* 7879
 - onions 6522
 - oranges 8074
 - ortaniques 8074
 - Osmunda japonica* 1497
 - peas 441, 3211-3212, 4175, 6522, 6873
 - persimmons 4561, 10896
 - Phaseolus vulgaris* 10496
 - Physalis ixocarpa* 6369
 - roses 5275

Proteins cont.

- composition cont.
 - Rubus* 9348
 - spinach 4062
 - tea 10018
 - Terfezia boudieri* 10601
 - Tirmania nivea* 10601
 - tomatoes 5119, 7832, 10575
 - Vicia faba* 1385, 7751
 - Viola tricolor* 10637
 - watermelons 2713
- determination
 - carrots 6958
 - Coleus hybridus* 7748
 - mushrooms 4267
 - onions 10386
 - Phaseolus vulgaris* 7743, 7748
 - plants 3732
- extraction
 - cabbages 7652
 - Momordica charantia* 10791
 - radishes 7652
 - Rhodophyta 1695
 - spinach 7652
 - Ulva* 5356
- exudation, *Phaseolus vulgaris* 5048
- leakage
 - lettuces 9449
 - Welsh onions 9449
- metabolism
 - alcohols
 - lettuces 4992
 - okras 6893
 - biochemistry
 - apples 4786
 - peas 10499
 - Phaseolus vulgaris* 5946
 - calcium, strawberries 247
 - carbon dioxide, tomatoes 1462
 - cerium, cucumbers 10471
 - choline, lettuce 4992
 - cold, grapes 8481
 - cultural methods
 - apples 1080
 - coffee 1804
 - Dunaliella tertiolecta* 3544
 - development
 - Chamaelaurium uncinatum* 10730
 - Cucurbita* 415
 - peas 5055
 - Phaseolus vulgaris* 10495
 - diseases, okras 5991
 - disorders
 - mangoes 7331
 - oil palms 2728
 - fertilizers, mushrooms 6065
 - flooding, *Momordica charantia* 10465
 - flowering
 - cashews 7282
 - Ipomoea tricolor* 8758
 - fruiting
 - Impatiens balsamina* 615
 - oranges 7214
 - geotropism, *Vicia faba* 10498
 - germination
 - apples 9176
 - carobs 10821
 - cucumbers 8563
 - Nelumbo nucifera* 7914
 - peas 5055-5056, 10487, 10499
 - Phaseolus vulgaris* 10487
 - tomatoes 3257
 - Vicia faba* 428-429
 - growing media, *Pleurotus ostreatus* 7854
 - harvesting, *Amaranthus mantegazzianus* 6054
 - heat
 - Capsicum* 6000
 - Phaseolus vulgaris* 10493
 - tomatoes 6038
 - heavy metals, tomatoes 6029
 - herbicides, tomatoes 3299, 9578
 - in vitro culture
 - chicory × endives 1303
 - Cuminum cyminum* 7989
 - Malus* 1103
 - Phaseolus vulgaris* 5947
 - Rhynchostylis retusa* 7942
 - Zinnia elegans* 3423
 - insecticides, dates 852

Proteins cont.

metabolism cont.

iron, *Malus* 1103
light*Amaranthus hypochondriacus*
5144

cucumbers 8563

grapes 3063

Petroselinum crispum 4438

radishes 9495

Vicia faba 5960

maturity

Agrocybe cylindracea 6976

bananas 6383

Vigna unguiculata 6876

molybdenum, tea 11008

mycorrhizas

Cyamopsis tetragonoloba 3209

lettuces 4992

Ziziphus nummularia 5519*Ziziphus xylopyrus* 11017

nitrogen, tea 5512

photoinhibition, spinach 7678

photoperiod, cherries 8333

physiology

Paonia lactiflora 2562

peaches 1155

plant growth regulators

apples 1080

cucumbers 413

Cucurbita pepo 4142

peas 6869

Phaseolus vulgaris 3200

radishes 9495

strawberries 258

tea 6457

Trigonella foenum-graecum 5324

plant nutrition

peaches 5658

spinach 9453

pollution

lettuces 10411

peas 6869

tomatoes 9578

potassium, *Cymbidium sinense* 1604

ripening

grapes 3067

guavas 918

kiwifruits 3915

Litchi 9902

melons 4614

salinity

carrots 8704

oranges 1724

peas 5966

tomatoes 2314

seasonal variation

algae 3325

woody plants 6521

seed treatment

aubergines 3251

cauliflowers 1344

Trigonella foenum-graecum 5324

senescence

broccoli 3152

carnations 3385

Chamelaucium uncinatum 10730*Clivia miniata* 656*Mirabilis jalapa* 4311*Rhoeo spathacea* 656

somatic embryogenesis

Freesia refracta 758

oranges 7218

Panax quinquefolius 758

tangors 7218

storage

avocados 2584, 8936

broccoli 4120-4121

cherimoyas 9924

tomatoes 5130, 6038

sugars, spinach 7677

temperature

Amaranthus lividus 557

cucumbers 5025

peas 3216, 7756

tomatoes 5025, 6029

Vaccinium 8418

ultraviolet radiation, cucumbers 8583

water stress

grapefruits 7210

lettuces 4992

Proteins cont.

metabolism cont.

water stress cont.

Phaseolus vulgaris 3200

tomatoes 2314

zinc

apples 8285

Phaseolus vulgaris 8591

tea 11008

taxonomy

Cactaceae 6155

carrots 2320

Datura 4457

Fabaceae 3194

Lactuca 8528*Lythrum* 7877*Vicia faba* 5951

watermelons 904

ultrastructure

Chinese cabbages 1340

Lilium longiflorum 7020*Nicotiana glauca* 7020

peas 2259

Tradescantia virginiana 6165**Protoplasts**

biochemistry

Ajuga reptans 5179*Kalanchoe daigremontiana* 7047histology, *Tradescantia* 7053*in vitro* culture, *Actinidia eriantha* 8394

isolation

Actinidia 3912

garlic 1279

Penunia 6103physiology, *in vitro* culture, carrots 3317

ultrastructure, carrots 6046

Prunella vulgaris, allelopathy 8211**Pruning (see also Ringing)**

ornamental woody plants, books 996

responses

Acacia 9793

apples 102, 226, 2914, 4724, 4748-

4750, 8272, 9182, 9189, 10103,

10133

bananas 882, 7274

black currants 226

cashews 5464, 9941

Celosia argentea var. *plumosa* 1550

chrysanthemums 2384

Cinnamomum camphora 8007

cucumbers 401, 6828, 10466

Dendranthema boreale 2384*Dendranthema zawadskii* 2384

figs 1142, 6608

garlic 331

grapes 2085, 5766, 6698-6699, 7615,

10327

guavas 2716, 9049, 10945

kiwifruits 3001

Liatris spicata 5207*Litchi* 1747, 4539, 5420

loquats 8977

mangoes 3676, 9975-9976, 10967

melons 10935

nectarines 4832

Opuntia 10902

pears 10103

plums 9321

pomegranates 873-874

Rhododendron obtusum 10722*Rosa damascena* 2532

roses 7096

satsumas 8964

strawberries 5735

tea 7360, 9092-9093

tomatoes 3268

Ziziphus mauritiana 965

seasons

apples 6556

apricots 10180

avocados 3568

clementines 5398

grapes 1232, 3966, 7616-7617

guavas 2716

Jasminum auriculatum 7953

kiwifruits 2039, 2990

Litchi 9900

mandarins 4501

pears 3888

tea 9093

Pruning cont.

systems

assessment

apples 99, 1079, 3758, 3780-

3781, 7470, 9187-9188,

10107

avocados 3569

coffee 3659, 7298

grapes 268, 3037, 3970, 6701,

7605

guavas 8146, 9048

Litchi 853

mangoes 10951

peaches 1148, 9291

pears 3781

pistachios 3901

plums 1178, 9320

poinsettias 3485

tea 10011

walnuts 10257

Ziziphus mauritiana 8168

fruit crops, books 9116

mechanical methods

Citrus 6328

grapes 1237, 8461

olives 1760, 7246-7247, 8981

Vaccinium 5709

root pruning

apples 98, 6556, 7469, 7472,

10117

cabbages 8544

cherries 10191

horticultural crops 2820

Opuntia ficus-indica 5447

ornamental woody plants 2820,

6186

peaches 1147, 3858

Quercus shumardii 6235

tea 9092

tomatoes 8663

Prunus (see also Almonds; Apricots; Cher-**ries; Damsons; Nectarines; Peaches;****Plums)**

as rootstocks, apricots 10175

disease control, USA 7446

fertilizers 6187

fruits

biochemistry 2849

development, models 72

interstocks 3744

pest control, USA 7446

rootstocks, propagation, cuttings 10084

salinity, injuries 2469

shoots, development, plant growth regu-

lators 7120

taxonomy, cytotoxicity 64

translocation, source sink relations 8184

Prunus campanulata, grafting, unions, treat-

ment 1894

Prunus cistena

growing media, characteristics 6233

plant water relations, growing media

6232

Prunus davidiana, taxonomy, numerical tax-

onomy 5634

Prunus divaricata, as rootstocks, plums

8380

Prunus glandulosa, *in vitro* culture, culture

media 90

Prunus humilis

characteristics 4818

nutritive value 4818

Prunus insititia (see also Damsons)

as rootstocks

nectarines 3847-3848

peaches 3848

plums 8380

Prunus kurilensis, cuttings, rooting, mists

5291

Prunus laurocerasus

leaves, physiology 5292

photosynthesis

biochemistry 7121

water stress 7121

seeds, composition 3552

Prunus mira

cuttings

rooting, seasonal variation 10084

treatment 10084

Prunus mume

breeding, genetic resources, China 5293

- Prunus mume* cont.**
 cold, resistance, breeding 5293
 cuttings
 rooting
 cultivars 3808
 physiology 3808
 pollen, development, anatomy 158
 seeds, development, embryology 2927
- Prunus necrotic ringspot***, plums 5684
- Prunus padus***, cultivars, clones 4386
- Prunus pseudocerasus***
 fruits, development, assessment 164
in vitro culture, propagation, micropropagation 1133
 plant embryos, development, assessment 164
 storage, temperature 164
- Prunus serotina***
in vitro culture, propagation, micropropagation 9810
 soil compaction, responses 9810
- Prunus sibirica***
 geographical distribution 154
 taxonomy, numerical taxonomy 5634
- Prunus spachiana***
 plant, habit, physiology 7529
 shoots
 composition 6234
 habit, plant growth regulators 5294
- Prunus spinosa***
 as rootstocks, plums 1177
 cultivars, clones 4386
 flowers, morphology 5688
- Prunus verecunda***, *in vitro* culture, propagation, micropropagation 9811
- Prunus yedoensis***
 cultural methods, containers 5280
 roots, development, cultural methods 5280
- Psammotermes hypostoma***, dates 6346
- Pseudaulacaspis pentagona***
 peaches 1152, 2964, 3864
 tea 1850
- Pseudocercospora fuligena***, tomatoes 4249
- Pseudocercospora purpurea***, avocados 4478-4479
- Pseudococcus affinis***, grapes 285
- Pseudococcus maritimus***, pears 7536
- Pseudodendrothrips mori***, mulberries 10203
- Pseudomonas***
 apples 109
 bananas 6376
 cherries 2930
 control
 of *Clavibacter michiganensis* subsp. *michiganensis*, tomatoes 1451
 of *Corticium rolfsii*, *Zingiber officinale* 7137
 of *Pythium ultimum* var. *ultimum*, tomatoes 7810
 epiphytes, tea 10019
 inoculation, lettuces 4992
Magnolia grandiflora 4392
 pears 109
 plant inoculation, *Origanum vulgare* 5316
 populations, vase water, roses 10728
- Pseudomonas aureofaciens***, control, of *Pythium*, lawns and turf 8809
- Pseudomonas cepacia***, control, of *Rhizoctonia solani*, poinsettias 719
- Pseudomonas corrugata***, control, of *Agrobacterium vitis*, grapes 6707
- Pseudomonas fluorescens***
 control
 of *Erwinia amylovora*, apples 3786
 of *Fusarium oxysporum* f.sp. *radicis-lycopersici*, tomatoes 3290
 of *Rhizoctonia solani*, tomatoes 1437
 inoculation, grapes 5752
 plant inoculation, tomatoes 1437
 root inoculation, grapes 6705
 seed inoculation, tomatoes 1437
- Pseudomonas solanacearum***
 bananas 884, 9937
 tomatoes 517, 1433, 2305, 4204, 7809
- Pseudomonas syringae***
 almonds 3750
 coffee 2694, 6403
- Pseudomonas syringae* cont.**
 extracts
 application
 radishes 235
 Vaccinium macrocarpon 235
 stone fruits 3750
- Pseudomonas syringae* pv. *lachrymans***, cucumbers 3177, 5898
- Pseudomonas syringae* pv. *savastanoi***, olives 859
- Pseudomonas syringae* pv. *syringae***, peaches 7528
- Pseudomonas syringae* pv. *tomato***, tomatoes 5105
- Pseudomonas zingiberi***, *Zingiber officinale* 8892
- Pseudoperonospora cubensis***
 cucumbers 1348-1349, 1361, 4140, 5020, 8575, 9511
 Cucurbitaceae 8572
- Pseudopeziza tracheiphila***, grapes 8470, 10310
- Pseudophoepteris levingei***, ornamental value 2432
- Pseudorchis albidia***
 taxonomy
 morphology 9764
 revisions 9764
- Pseudorchis straminea***
 taxonomy
 morphology 9764
 revisions 9764
- Psidium* (see also *Guavas*)**
- Psidium cattleianum***
 leaves, anatomy 9051
 reviews 913
 stooling, responses 10940
- Psidium chinensis***
 stooling
 responses 10940
 techniques 9957, 10938
- Psidium friedrichsthalianum***
 as rootstocks, guavas 6424
 stooling, responses 10940
- Psidium molle***, stooling, responses 10940
- Psila rosae***
 carrots 2322, 3315, 4254, 8707
 vegetables 2115
- Psophocarpus tetragonolobus***
in vitro culture, propagation, micropropagation 6875
 pollen, ultrastructure 4177
 roots, physiology 5985
 seeds
 development, embryology 8616
 germination, seed treatment 5984, 9416
- Psoralea corylifolia***
 seeds, treatment 2564
 soil types 8910
- Psychilis***, books 7392
- Pteridophyta***, wild plants, utilization, ornamental plants 5217
- Pteris tremula***, cut foliage, production, cultural methods 4361
- Pterocarpus milderbraedii***, leaves, composition 6058
- Pterocarya paliurus***, shoots, composition 4472
- Pterocladia capillacea***, composition 8934
- Pterostylis acuminata***, mycorrhizas 7066
- Ptilotus***, species, pot plants 9639
- Ptilotus exaltatus***
in vitro culture
 organogenesis 7012
 plant nutrition 1556
- Ptychosperma macarthurii***, propagation, techniques 2430
- Puccinia***, lawns and turf 2425
- Puccinia allii***
 garlic 4026
 leeks 5792, 9430
- Puccinia asparagi***, *Asparagus* 456, 5064, 8618
- Puccinia graminis***, *Agrostis capillaris* 4344
- Puccinia horiana***, chrysanthemums 603-604, 8748
- Puccinia menthae***, *Mentha* 5313, 8012
- Puccinia pelargonii-zonalis***, *Pelargonium* 5175
- Pueraria***, as cover crops, coconuts 9950
- Pueraria phaseoloides***
 as cover crops, *Hewea* 9074
 mycorrhizas 938
- Pulicaria paludosa***, as weeds, olives 7242
- Pumice**
 utilization
 growing media
 Capsicum 9563
 carnations 3383
 chrysanthemums 3389
 Gerbera 8664, 8753, 10622
 horticultural crops 4679, 6511
 tomatoes 7804, 8664, 8666
- Pummelos**
 as rootstocks
 lemons 8941
 oranges 1715
 cultivars
 characteristics, China 4495, 10822
 composition 5410
 identification 8939
 fruits
 composition 5410
 cracking
 humidity 1741
 rootstock scion relationships 10859
 soil water 1741
 quality, pollen 10855
in vitro culture, organogenesis 6317
 interstocks 9879
 nutrients, requirements, analysis 3585
 pollen
 treatment, cold 10855
 tubes, development 837
 production, Japan 8959
 roots, composition 4513
 scoring, responses 2593
 seeds
 composition 5410
 development, pollen 10855
 taxonomy, chemotaxonomy 820, 8938
- Pummelos × *Poncirus trifoliata***, rootstocks, pest resistance 2589
- Pumpkins (see also *Cucurbita*)**
 as rootstocks, watermelons 9039
 cotyledons
 biochemistry 4144, 6833
 composition 5914
 cultural methods, Australia 2196
 economics, Australia 3160
 fruits
 development, plant growth regulators 5488
 mechanical properties, measurement 3158
 set, plant growth regulators 5488, 7429
 pest control
 Bemisia argentifolii 5778
 Trialeurodes vaporariorum 1365
 processing, quality, herbicides 2201
 seedlings
 biochemistry 4147
 composition 4147
 seeds
 cytology 7731
 germination, ultrastructure 7731
 transpiration, determination 6739
- Punica* (see also *Pomegranates*)**
- Purines**
 biosynthesis, coffee 4603
 metabolism, biochemistry, coffee 7307-7308
- Pycnostysanus azaleae***
Rhododendron 8853
Rhododendron maximum 8853
- Pyracantha***
 irrigation, water, sources 1656
 planting stock, production, cultural methods 3466
- Pyracantha coccinea***, fertilizers 6187
- Pyracantha rogersiana***, irrigation, water, sources 1656
- Pyralidae***, lawns and turf 9724-9725
- Pyrenochaeta lycopersici***, tomatoes 518
- Pyrenochaeta terrestris***, onions 5815
- Pyrethrins***, metabolism, plant growth regulators, *Tanacetum cinerariifolium* 7153
- Pyrethrum* (see *Tanacetum cinerariifolium*)**
- Pyrostegia venusta***, seeds, anatomy 10740

Pyrrhalta luteola*, Ulmus 6237**Pyrrhalta viburni*, Viburnum tinus 1658*****Pyrus* (see also Pears)**

cropping systems, intercropping 2756

cultivars

books 10034

identification 3886

cuttings

types

semihardwood cuttings 4840

softwood cuttings 4840

disease control, *Venturia pirina* 9308

fruits, browning, storage 3895

in vitro culture, responses, cultivars 2967

intercropping, tea 2756

storage, treatment 3895

taxonomy, chemotaxonomy 7532

Pyrus betulifolia

as rootstocks, pears 4843

chilling requirement 3889

flooding, tolerance 8360

mitochondria, frequency 8360

waterlogging, responses 10237

Pyrus bretschneideri

cultivars

composition 5671

cytology 6630

disorders, brown core 3898

fruits

biochemistry, cultural methods 6633

browning

biochemistry 3896

storage 3894, 8374

composition 5671

covers, responses 6633

development, histology 2015

quality, storage 3898

russeting, anatomy 3892

photosynthesis, physiology 8369

storage

biochemistry 3896

disorders 3896, 3898

physiology 8374

precooling 3894

treatment 3897

vascular system 6630

Pyrus calleryana

flooding, tolerance 8360

herbicides, injuries 2472

mitochondria, frequency 8360

waterlogging, responses 10237

Pyrus caucasica*, as rootstocks, pears 10103**Pyrus elaeagnifolia*, chilling requirement 3889*****Pyrus melanocarpa* (see Aronia melanocarpa)*****Pyrus pashia*, wild plants, edible species 10262*****Pyrus pyrifolia***

chilling requirement 1166, 8361

cultivars

characteristics

China 5673-5674, 8359, 10228

Korea Republic 1158

chilling requirement 1166

composition 5671

disease resistance 8356

storage 10228

disorders

bud jump 2971

flesh spot decay 2972

water core 190

flooding, tolerance 8360

flowers

abnormal development 2971

initiation, physiology 2970

fruits

composition 5671

quality, assessment 1169

ripening, biochemistry 2016, 7539

size, plant growth regulators 4842

thinning, plant growth regulators

2972

grafting, unions, treatment 1894

irrigation, requirements, determination 5676

mitochondria, frequency 8360

nutrients, requirements, assessment 2968

pest control, *Brevipalpus chilensis* 2846

plant, composition 7539

plant training, systems 2970

***Pyrus pyrifolia* cont.**

pollen

collection 3890

storage 3891

roots, development, assessment 68

storage, quality, plant growth regulators 2972

waterlogging, responses 10237

Pyrus serotina* (see *Pyrus pyrifolia*)**Pyrus sinkiangensis***

cultivars, composition 5671

fruits, composition 5671

Pyrus ussuriensis

cultivars, composition 5671

fruits

aroma, biochemistry 10242

composition 5671

ripening, biochemistry 10242

plant, biochemistry 189

Pythium

carrots 3311, 9430

globe artichokes 1300

horticultural crops 10067

lawns and turf 8809, 10671

Pelargonium 10623

spinach 5838

tomatoes 3288, 6010

Zingiber officinale 3519***Pythium aphanidermatum***

cucumbers 1359, 10472

watermelons 9966

Zingiber officinale 6250***Pythium graminicola*, lawns and turf 10672*****Pythium ultimum***

cucumbers 1047

tomatoes 6930

Pythium ultimum* var. *ultimum*, tomatoes 7810**Quadraspidiotus ostreaeformis***

apples 1965

pears 1965

Quadraspidiotus perniciosus

apples 116, 7485

grapes 285

ornamental woody plants 1618

peaches 2964, 3864

temperate fruits 1923

Quadraspidiotus pyri

apples 1965

pears 1965

Quercus bicolor*, planting stock, production, cultural methods 6185**Quercus laurifolia***

planting stock

handling 5295

lifting 5295

Quercus muehlenbergii*, planting stock, production, cultural methods 6185**Quercus robur***

grafting, unions, treatment 10716

plant, injuries, surveys 2463

pollution, ammonia 8843

roots, development, plant growth regulators 7073

Quercus rubra

fertilizers

nitrogen 6230

phosphorus 6230

potassium 6230

herbicides

injuries 7071

responses 7974

planting stock, production, cultural methods 6185, 6230

roots, development, cultural methods

7974

weed control 7071

Quercus shumardii

planting stock

production

containers 6235

cultural methods 6185

pruning, systems, root pruning 6235

Quercus virginiana*, planting stock, production, cultural methods 4428**Quesada gigas*, coffee 2697****Quinces**

as rootstocks, pears 2983, 3887, 8364

chilling requirement 3889

cuttings, rooting, cultivars 9327

disease control, Switzerland 3751

Quinces cont.

disorders

chlorosis 1180

internal browning 4861

plant nutrition, iron 1180-1181, 2983

roots, biochemistry, plant nutrition 2983

rootstocks, plant nutrition 1180-1181, 2983

storage

biochemistry 4861

disorders 4861

quality

altitude 207

maturity 207

Quinonesbiochemistry, *Petunia* 2387

composition, tomatoes 1465

taxonomy, Liliaceae 5155

Quisquaya*, books 7392*Rabbit droppings, utilization, fertilizers, tomatoes 3276*****Radermachera sinica*, pot plants, production, cultural methods 4368, 5219****Radionuclides**

composition, vegetables 4008

translocation, grapes 1442

uptake

cabbages 5000

edible fungi 7845

grapes 1442

lettuces 1307, 4072

tomatoes 1442

vegetables 4009, 6730

Radishes

allelopathy 8044

cold, responses 5884

cotyledons

degreening, plant growth regulators 6803

senescence 9495

cropping systems, rotations 6732

cultivars

assessment

Colombia 7642

India 3154

Poland 9490

chilling requirement 9489

composition 5886

identification 7715

disorders

chlorosis 5005

hollow root 7717-7718

sponginess 396

fertilizers

nitrogen 2193, 8560

phosphorus 9493

potassium 8560

geotropism 393

growing media, pH 6801

herbicides

responses 3082

tolerance 3071, 9492

in vitro culture

metabolites, production 8561

organogenesis 7716

somatic embryogenesis 1345

intercropping, mangoes 7324

irrigation, water, sources 2111, 4989

leaves

composition 395, 7652, 9433

injuries, physiology 1263

morphology 5880

pest control, *Delia radicum* 3079

plant

biochemistry 9498

composition 4019, 7722, 9152, 10368

development, models 5882

physiology 9494

plant growth regulators

alcohols, responses 1031

ethylene, responses 6803

forchlorfenuron, responses 7718

gibberellins

composition 7719

metabolism 5884

plant nutrition

calcium 6799

iron 5005

nitrogen 4125, 8559

phosphorus 8559

potassium 6799

Radishes *cont.*

- planting, planting date 8562
- pollution
 - acid rain 1263, 5560, 9422
 - oils 9491
 - ozone 8558
 - radionuclides 6799
 - sulfur dioxide 5882
- production possibilities, USA 8491
- roots
 - biochemistry 394, 5885, 6804
 - composition 5886, 9496, 10458-10459
 - cytology 5883
 - mechanical properties, measurement 3157-3158
 - quality, assessment 396
 - root hairs 5883
 - senescence 9495
- salinity, responses 2192, 7721
- seedlings
 - biochemistry 2191, 6802, 10457
 - salinity 2192
 - composition 7723
 - development
 - plant growth regulators 7720
 - pollution 5011
 - emergence, soil structure 1269
 - physiology 9495
- seeds
 - germination
 - biochemistry 5881
 - physiology 9417
 - seed treatment 392, 9417
 - moisture content 2194
 - production
 - assessment 6805
 - cultural methods 328, 2193, 5835, 8560, 8562
 - threshing 2194
 - sowing
 - equipment 6726
 - sowing date 7717, 9489
 - treatment 3155, 7643, 9470-9471
 - vigour
 - assessment 9470
 - cryopreservation 10424
 - moisture content 10424
- soil amendments 2113, 6800, 9428, 9491
- soilless culture
 - nutrient solutions
 - composition 4124, 5010, 7703
 - pH 4124
- storage
 - humidity 8502
 - quality, cultivars 5886
- transpiration, determination 6739
- water stress, responses 9494
- weed competition 3156
- weed control 3156, 5835
- wild plants, edible species 5880
- yields, correlation 6805

Radium, uptake, horticultural crops 1907

Radopholus similis, bananas 4575, 6379

Rahnella aquatilis, control, of *Agrobacterium vitis*, grapes 6707

Rain

- injuries, cherries 5637
- measurement
 - cabbages 5770
 - Capsicum* 5770
 - tomatoes 5770
- protection, *Hevea* 9081
- responses
 - apples 4793
 - lettuces 5851
 - vegetables 1264

Ramaria flavo-brunneascens, composition 6987

Rambutans

- disorders, chilling injury 5521
- fruits
 - browning, storage 10023-10024
 - composition 10878
- processing, residues 5522
- products, pectins 1774
- reports, Australia 8189
- storage
 - humidity 10023-10024
 - physiology, reviews 2778

Rambutans *cont.*

- storage *cont.*
 - systems, modified atmosphere storage 5521

Ramie (*see Boehmeria nivea*)

Ranunculaceae

- books 7385
- pollen, morphology 2375

Ranunculus, cut flowers, production, cultural methods 4276

Ranunculus asiaticus, flowers, colour, biochemistry 8796

Ranunculus ficaria, cultivars, ornamental value 5190

Raphanus (*see also* Radishes)

- as weeds, olives 8097

Raphanus raphanistrum, as weeds, *Asparagus* 7763

Raphanus sativus var. *oleiformis*, as cover crops, *Asparagus* 9543

Rare earth elements

- fertilizers
 - black currants 6648
 - vegetables 5868

Raspberries

- buds, development, assessment 9345
- cold, resistance, assessment 8407
- cultivars

- assessment, Slovenia 9344
- characteristics

- Belgium 10280
- Canada 5704
- Russia 1192
- Switzerland 3921

- disease resistance 3921
- energy requirements 3006
- temperature 8407

- cultural methods, books 2784
- disease control

- Botrytis cinerea* 231
- Phytophthora fragariae* var. *rubi* 1194
- USA 3907

fertilizers

- nitrogen 3922, 10282
- potassium 3922

frost

- injuries 2044
- resistance, bacteria 2044

fruits

- biochemistry 6657
- colour, cultivars 6659
- composition 10069
- development
 - assessment 8238
 - harvesting date 1195
 - pollination 1195
- ripening, physiology 230
- harvesting, equipment 9347
- in vitro* culture
 - culture media 5558
 - propagation
 - micropropagation 2811
 - responses 5705
 - somaclonal variation 5706
- irrigation, responses 4878

mulching

- materials 1194, 2046, 4878, 7569
- responses 7569, 8408

pest control

- arthropods 1193
- USA 3907
- plant nutrition, nitrogen 2826
- plant training, systems 3747, 3920
- planting stock, storage 229

production

- energy requirements 3006
- Philippines 9355

protected cultivation, cultural methods

- 10281
- shade, responses 7570

shoots

- development
 - cultivars 9346
 - models 9346

soil amendments 3007

storage

- disease control 231
- precooling 9372
- quality, plant nutrition 6658

Raspberries *cont.***storage** *cont.*

- systems
 - cold storage 10263
 - controlled atmosphere storage 7591

- suckers, control, mulching 7569
- translocation, source sink relations 7570
- weed control 3907, 7569, 8408

Raspberries × **blackberries**, fruits, ripening, physiology 230

Raspberry bushy dwarf idaeovirus, *Rubus* 5697

Rastrococcus iceryoides, mangoes 2722

Rastrococcus invadens, mangoes 1829

Rats, oil palms 7342

Rauwolfia micrantha, *in vitro* culture, propagation, micropropagation 8926

Rauwolfia serpentina, *in vitro* culture, propagation, micropropagation 8039

Rauwolfia (*see* *Rauwolfia*)

Ravena rivularis, growing media, composition 687

Rawolfia (*see* *Rauwolfia*)

Red currants (*see also* *Ribes rubrum*)

cultivars

- assessment, Germany 227
- characteristics

- Belgium 10280
- Netherlands 1190
- Russia 2043
- Ukraine 5699

flowering date 3004

cuttings, cultural methods 4862

fruits, composition 5701

grubbing, techniques 9341

in vitro culture, storage 6650

irrigation, responses 227

pest control, Aphididae 8384

plant, development, phenology 3004

plant training, systems 3003

seeds, composition 5701

Refuse compost**utilization****fertilizers**

- bananas 5458
- Brassica chinensis* 8550
- cabbages 4095
- leeks 4095
- lettuces 10412
- pawpaws 10987
- strawberries 5730

growing media

- Cyclamen persicum* 630
- lawns and turf 5210-5211
- ornamental plants 6081
- Swietenia mahagoni* 5296
- tomatoes 5090

mulches

- almonds 10086
- apples 2870
- Citrus* 10086
- grapes 2870, 6697
- lawns and turf 2424
- walnuts 10086

soil amendments

- Capsicum* 8643
- carrots 10468
- cucumbers 10468
- guavas 6425
- lawns and turf 2424
- pawpaws 5504
- tomatoes 509, 8643
- Vaccinium* 4880

Regeneration

- cultivars, apples 8265
- cultural methods, grapes 10324
- economics
 - grapes 10325
 - tea 5511

plant growth regulators, apples 8265

plant nutrition, apples 8265

pruning

- apples 8265
- avocados 3568
- horticultural crops 2820
- loquats 8977
- Opuntia* 10902
- ornamental woody plants 2820
- tea 10011

Regeneration cont.

replanting

- apples 8266
- oil palms 5498
- oranges 5374
- ornamental woody plants 2457
- peaches 3855
- tea 1848, 5511, 11004

topworking

- apricots 10179
- cashews 1791
- chestnuts 1994
- Citrus* 10839
- guavas 1821
- mandarins 9883
- oranges 9883
- satsumas 1719, 9883
- tea 5511

Rehmannia glutinosa

- in vitro* culture, propagation, micropropagation 8040
- planting stock, production, *in vitro* culture 8041

Reichenbachanthus, taxonomy, nomenclature 7056**Replanting**

cultural methods

- apples 97, 4766
- oil palms 10980
- tea 953
- diseases, *Asparagus* 3225, 10511
- economics, tea 954
- pests, apples 3789
- seasons, tea 11004

Reports (see also Yearbooks)

Australia

- Department of Primary Industry and Fisheries, Northern Territory 8189
- Horticultural Research Development Corporation 7401
- Institute for Horticultural Development, Victoria 5546

Belgium

- Comité voor Onderzoek op Groentegewassen, Sectie I 1884
- Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 10055
- Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw 8190
- Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 1015-1017, 1885-1886, 7402
- Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 1887
- Westvlaamse Proeftuin voor Industriële Groenten 9127
- Westvlaamse Proeftuin voor Industriële groenten, Beitem-Roeselare 1888

Belgium, Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 5547

Belgium, Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 5548

Finland, Institute of Horticulture, Agricultural Research Centre 6485

France, Centre Interrégional de Recherche et d'Expérimentation de la Fraîsse 3712-3713

Germany

- Forschungsanstalt Geisenheim und Fachbereiche Weinbau und Getränketechnologie, Gartenbau und Landespflege der Fachhochschule Wiesbaden 8191
- Institut für Obstbau und Gemüsebau der Rheinischen Friedrich-Wilhelms-Universität Bonn 10056

Ghana, Cocoa Research Institute 8192

India

- Central Plantation Crops Research Institute 10057

Reports cont.

India cont.

- National Horticultural Research and Development Foundation 8193
- National Research Centre for Citrus 3714, 4671

Italy, Istituto Sperimentale per la Valorizzazione Tecnologica dei Prodotti Agricoli, Milano 4672

Japan, Akita Fruit-Tree Experiment Station 10058

Kenya, Tea Research Foundation of Kenya 2804

Malawi, Bvumbwe Agricultural Research Station 10059

Malaysia, Guthrie Research Chemara 5549

Nepal

- Lumle Agricultural Research Centre 9128

Pakhribas Agricultural Centre 9129

Netherlands

- Laboratorium voor Bloembollenonderzoek 8195

Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond, Lelystad 8194

Research Station for Fruit Growing, Wilhelminadorp 5550

Slovenia, Agricultural Institute of Slovenia 6486

Switzerland, Eidgenössische Forschungsanstalt für Obst-, Wein- und Gartenbau 8196

UK, Jersey Department of Agriculture and Fisheries 4673

USA, Northern Nut Growers' Association 10060

Resins

- composition, *Grindelia chilensis* 10811
- production, cultivars, *Grindelia* 10810
- utilization, casing, mushrooms 7846

Respiration

assessment

- broccoli 8547
- cabbages 8547

biochemistry

- lawns and turf 4162
- Petunia* 4295
- Phaseolus vulgaris* 4162

spinach 8521

carbon dioxide

- apples 84
- broccoli 4947
- Capsicum* 2277
- carrots 4947
- cucumbers 4947
- horticultural crops 3736

cultivars

- Acer* 6209
- persimmons 5434

cultural methods

- Lentinula edodes* 3362
- peaches 3875
- persimmons 9916
- diurnal variation, spinach 8521
- handling, olives 2653
- in vitro* culture, *Papaver rhoeas* 2396
- irrigation, olives 10882
- light

- Moricandia arvensis* 3417
- spinach 8521

measurement

- Acer* 6209
- horticultural crops 1053
- oil palms 5500

models

- apples 7503
- fruit crops 10074

photorespiration

- Alstroemeria* 10654
- peas 2251

Phaseolus vulgaris 5937

photosynthesis, tomatoes 6942

physiology

- apples 4707
- avocados 4707
- Cucurbita pepo* 3184
- durians 7375
- Gaillardia pulchella* 10626
- kiwifruits 3910

Respiration cont.

physiology cont.

- melons 5483
- oranges 4707
- ornamental plants 5267
- plant growth regulators, plums 10253
- plant nutrition
- Cymbidium sinense* 1603
- Phaseolus vulgaris* 5937
- pollination, *Hibiscus rosa-sinensis* 4418
- pollution, peas 6859
- potassium, *Litchi* 4542
- ripening
- mangoes 10974
- melons 9047
- tomatoes 2313, 8691

salinity

- carrots 8704
- mangoes 7326

senescence

- broccoli 3152
- Chamaelium uncinatum* 10730
- Grevillea* 9808
- mushrooms 8723

storage

- apples 7503, 10153
- apricots 2928
- bananas 3652
- broccoli 10456
- Capsicum* 2284
- carrots 7841
- Castanea mollissima* 1995
- fruit crops 10074, 10079-10080
- garlic 5787
- grapefruits 10862
- horticultural crops 10072
- Litchi* 1759
- onions 9448
- pears 187
- tomatoes 9614
- vegetables 10079-10080
- Vigna radiata* 5986
- Vigna unguiculata* subsp. *sesquipedalis* 5987

temperature

- aubergines 4017
- cucumbers 4017, 6810
- Episcia cupreata* 4017
- Hibiscus rosa-sinensis* 1649
- mushrooms 9629
- persimmons 5434
- tomatoes 4017

water stress

- peas 6868
- Saxifraga cernua* 6117

waterlogging

- apples 4781
- strawberries 3015

Retinol

composition

- Annona coriacea* 8110
- loquats 8979

Réunion

- Citrus*, pest control 6334
- garlic, production 5802
- Litchi*, production 2632
- onions, production 5802
- subtropical fruits, research 2577
- tropical fruits, research 2577

Reviews

- algae, utilization 3554
- alkaloids, biosynthesis, coffee 4605
- apples, disorders, bitter pit 6587
- apricots
- cultural methods 9228
- rootstocks 10173
- avocados
- rootstocks 4475
- salinity 796
- bamboos 6181
- Brassicaceae, pest control, *Plutella xylostella* 7709
- carbon dioxide, responses, plants 7427
- cell membranes, physiology, horticultural crops 3731
- cell walls, physiology, cucumbers 2210
- Centella asiatica* 6052
- Ceroxylon* 2492
- chicory, disorders 2155
- Citrus*
- disorders, granulation 2624

Reviews cont.

Citrus cont.

- fruits, composition 8085
- in vitro* culture, somatic embryogene-
sis 6316
- rootstock scion relationships, quality
4498
- coconuts, climate, requirements 896
- coffee
 - cropping systems
 - agroforestry 8139
 - monoculture 8139
- ecology 6398
- cold, resistance, plant growth regulators,
horticultural crops 8208
- cucumbers, plant, physiology 2210
- cut flowers, quality, disorders, *Protea*
4427
- cuttings, rooting, plants 2835
- cytology 1050
- edible fungi 3333, 6528
 - Pleurotus* 6970
 - Pleurotus ostreatus* 6970
 - Volvariella* 6970
- Embelia ribes* 8921
- Embelia tsjeriam-cottam* 8921
- enzymes, biochemistry, plants 1913
- Eucommia ulmoides*, research 2555-2556
- ferns 10082
- flowers
 - development, plant growth regulators,
ornamental plants 4279
 - initiation, plant growth regulators,
temperate fruits 1924
- fruit crops
 - disease control 6513
 - plant nutrition 50
 - research 1908
 - quality, assessment 61
- fruits
 - development
 - biochemistry, fruit crops 4696
 - physiology, strawberries 3947
 - quality, assessment, fruit crops 10081
 - ripening, physiology, fruit crops 4698
- fungi, ethnobotany 6528
- Gevuina avellana* 9332
- grapes 3028
 - ecology 3962
 - fruits, ultrastructure 10346
- Hevea*, production, environmental impact
9998
- horticultural crops
 - cultural methods, arid regions 8220
 - disease control 7423
 - fertilizers 7423
 - mechanically induced stress,
responses 5572
 - pest control 7423
 - plant growth regulators
 - jasmonic acid, responses 7430
 - methyl jasmonate, responses 7430
- in vitro* culture
 - culture media 6497
 - disorders, vitrification, plants 3717
 - metabolites, production, plants 7129
 - propagation
 - micropropagation, plants 3716
 - techniques, grapes 4909
- integrated control
 - diseases, vegetables 3078
 - pests, vegetables 3078
- Ipomoea carnea* 6098
- irrigation, requirements, determination,
vegetables 10361
- Israel, *Simmondsia chinensis*, production
4468
- juvenility, physiology, ornamental woody
plants 3472
- lawns and turf, shade, responses 4343
- leaves, flavour, biochemistry, tea 7369
- lichens, ethnobotany 6528
- liverworts, utilization 8231
- mannitol, metabolism, physiology, plants
8225
- mechanically induced stress
 - responses
 - horticultural crops 5572
 - plants 3728
- mosses, utilization 8231
- mycorrhizas, temperate fruits 1920

Reviews cont.

- Nematoda, spice plants 7986
- nitrogen
 - plant nutrition
 - horticultural crops 4693
 - temperate fruits 2823
- oil palms, products, Malaysia 3680
- olives, *in vitro* culture, propagation,
micropropagation 9908
- Opuntia* 10900
- ornamental plants, mycorrhizas 1523
- peaches, history 3829
- Peucedanum officinale*, ecology, UK
9856
- photosynthesis, carbon dioxide, plants
7427
- plant growth regulators
 - Citrus* 1738
 - ethylene
 - physiology
 - fruit crops 4698
 - horticultural crops 5573
 - fruit crops 7409
 - jasmonic acid, responses, horticultural
crops 7430
 - methyl jasmonate, responses, horticul-
tural crops 7430
 - ornamental plants 7858
 - vegetables 7646
 - plant nutrition, *Citrus* 7203
- plants
 - in vitro* culture, propagation,
micropropagation 3716
 - mechanically induced stress,
responses 3728
 - seeds, dormancy, physiology 3718
- pollution
 - cadmium 4682
 - caesium, vegetables 4936
- Protea*, cut flowers, quality, disorders
4427
- Psidium cattleianum* 913
- rootstock scion relationships
 - quality
 - Citrus* 4498
 - temperate fruits 4498
- roses, flowers, development, physiology
2487
- salinity, horticultural crops 7416
- seeds
 - dormancy, physiology, plants 3718
 - treatment, horticultural crops 4681
 - viability, plants 1027
- senescence
 - biochemistry
 - fruit crops 10078
 - vegetables 10078
 - physiology
 - fruit crops 10078
 - horticultural crops 3731
 - vegetables 10078
- shade, responses, lawns and turf 4343
- Simmondsia chinensis*, production, Israel
4468
- storage
 - biochemistry, fruit crops 7434
 - horticultural crops 1915
 - physiology
 - fruit crops 4697, 7434
 - horticultural crops 3731
 - rambutans 2778
 - quality, plant nutrition, apples 4798
- systems
 - assessment
 - fruit crops 10077
 - vegetables 10077
- strawberries
 - fruits
 - development, physiology 3947
 - ripening, physiology 3947
- tea
 - leaves
 - composition 7368
 - flavour, biochemistry 7369
 - photosynthesis 2764
 - processing, quality, biochemistry
7364
- temperate fruits
 - plant nutrition, nitrogen 2823
 - rootstock scion relationships, quality
4498

Reviews cont.

- temperate fruits cont.
- rootstocks, propagation 3745
- tomatoes, *in vitro* culture, cell suspen-
sions 7820
- translocation, physiology, plants 10506
- tropical fruits
 - storage
 - disease control 5450
 - pest control 5450
- vegetables
 - disease control, integrated control
3078
 - irrigation, requirements, determination
10361
 - pest control, integrated control 3078
 - plant
 - canopy, physiology 1273
 - development, shade 1273
 - plant growth regulators 9426
 - quality, assessment 61, 10081
 - roots, development, stress 1272
 - seedlings, development, stress 1272
 - shade, responses 1273
 - volatile compounds, biochemistry, plants
3729
- Rhadinaphelencus cocophilus*, oil palms
6435
- Rhagoletis cerasi*, cherries 3820
- Rhagoletis mendax*, *Vaccinium angustifolium*
237
- Rhagoletis pomonella*, apples 118, 8297
- Rhaphidophora aurea* (see *Epipremnum
pinnatum*)
- Rheum* (see also *Rhubarb*)
- Rheum palaestinum*
 - plant, composition 4004
 - wild plants, edible species 4004
- Rhinanthus minor*, as weeds, lawns and turf
6142
- Rhinopetalum* (see *Fritillaria*)
- Rhipsalidopsis gaertneri*
 - cuttings, treatment 1594
 - pot plants, longevity 9746
 - shoots, abscission, plant growth regula-
tors 1594
- Rhipsalis*, taxonomy, nomenclature 9747
- Rhizobium*
 - populations, nodulation, *Tephrosia
purpurea* 10801
 - seed inoculation, *Phaseolus vulgaris*
5936
- Rhizobium leguminosarum* bv. *phaseoli*,
seed inoculation, *Phaseolus vulgaris*
2227
- Rhizoctonia*
 - Calluna vulgaris* 3479, 10718
 - Erica* 3479
 - mycorrhizas, *Orchis morio* 2449
 - spinach 5838
- Rhizoctonia carotae*, carrots 1486
- Rhizoctonia fragariae*, strawberries 1211,
5732
- Rhizoctonia solani*
 - aubergines 10528
 - Calluna vulgaris* 3479
 - Capsicum* 10528
 - Cryptotaenia japonica* 9624
 - cucumbers 8571
 - Erica* 3479
 - grapes 276
 - lawns and turf 2425, 9723, 10664
 - mycorrhizas, *Pterostylis acuminata* 7066
 - passion fruits 3626
 - Pelargonium peltatum* 7000
 - Pelargonium zonale* 7000
 - Phaseolus coccineus* 1380
 - Phaseolus vulgaris* 1047
 - poinsettias 719
 - Sandersonia aurantiaca* 9717
 - spinach 4056
 - tomatoes 1437
 - vegetables 326
 - Zinnia elegans* 10528
- Rhizomes**
 - development
 - biochemistry, *Polianthes tuberosa*
4336
 - in vitro* culture, *Zingiber officinale*
5325

Rhizomes cont.

development cont.

light

Achillea millefolium 4452*Mentha piperita* 4452production, cultural methods, *Polianthes tuberosa* 663quality, fertilizers, *Zingiber officinale* 7136***Rhizophora apiculata***, products, beverages 1694***Rhizophora lamarckii***, products, beverages 1694***Rhizophora mucronata***, products, beverages 1694***Rhizopus***, guavas 2718***Rhizopus stolonifer***

apples 10164

carrots 9623

nectarines 9294

peaches 9294

pears 10164

strawberries 4895

Rhizosphere

microorganisms

Citrus 4502

cucumbers 4136

Lavandula angustifolia 2529

tea 11005

tomatoes 4220

vegetables 322

Zinnia elegans 4319***Rhodanthe***, cultivars, characteristics, Australia 9642***Rhodanthe chlorocephala* subsp. *rosea***

seeds

germination

light 594

seed treatment 594

temperature 594

Rhodanthe chlorocephala* subsp. *spendida

seeds

germination

light 594

seed treatment 594

temperature 594

Rhodanthe floribunda

seeds

germination

light 594

seed treatment 594

temperature 594

Rhodocactus* (see *Pereskia*)**Rhododendron***

books 986

breeding, interspecific hybridization 9781

climate, USA 6194

cold, resistance, physiology 9782

cultivars

disease resistance 7092

ornamental value 8852

cuttings

cultural methods 4398

treatment 6192

types

assessment 722

semihardwood cuttings 7955

softwood cuttings 7955

disease control

Erysiphe cruciferarum 7092*Microsphaera azaleae* 7092*Phytophthora cinnamomi* 3488*Phytophthora citricola* 7957*Phytophthora nicotianae* var. *parasitica* 3488*Pycnostysanus azaleae* 8853

fertilizers

nitrogen 4399

phosphorus 4399

flowers

development

assessment 2483

climate 6194

frost

resistance

assessment 3469

seasonal variation 6195

water stress 6195-6196

heat, responses 10721

herbicides

application methods 3470

***Rhododendron* cont.**

herbicides cont.

injuries 8845

leaves, biochemistry, stress 10721

mycorrhizas 6510

nectar 2483

nutrients, requirements, analysis 4400

pest control

Diptera 590

Otiorynchus 590*Otiorynchus sulcatus* 3490*Stephanitis pyrioides* 723

photosynthesis, physiology 5267

plant, morphology 9781

planting stock, production, cultural methods 3466, 4399, 7091

pollen, morphology 2483

propagation, techniques 4398

respiration, physiology 5267

seeds

characteristics 4398

germination, growing media 6191

species, disease resistance 7092

surveys, Chile 6510

water stress, responses 6195-6196, 9782, 10721

weed control 1522, 8845

winter hardiness, cultivars 7956

Rhododendron augustinii

pollen, development, morphology 3491

pollination, pollinators, Apidae 3491

Rhododendron bureavii, cold, resistance,

biochemistry 8854

Rhododendron catawbiense, cuttings, types,

assessment 722

Rhododendron indicum, pot plants, storage

10607

Rhododendron kesangiae, ornamental value

721

Rhododendron maddenii

pollen, development, morphology 3491

pollination, pollinators, Apidae 3491

Rhododendron maximumdisease control, *Pycnostysanus azaleae*

8853

leaves, physiology 8855

Rhododendron obtusum

flowers, development, shade 1630

plant growth regulators, paclobutrazol,

application methods 5266

plant water relations, physiology 10722

pot plants, production, cultural methods

5266

pruning, responses 10722

shade, responses 1630, 10722

Rhododendron oomurasaki, pollution,

exhaust gases 3489

Rhododendron ponticum

cold, resistance, biochemistry 8854

growing media, pH 6081

Rhododendron sarcodes, taxonomy, new

taxa 1629

Rhododendron simsiicultivars, *in vitro* culture 7090

growth retardation, plant growth regula-

tors 6193

in vitro culture, organogenesis 7090

irrigation, insecticides, application 2482

pest control, *Myzus persicae* 2481-2482

soilless culture, pest control 2481

Rhododendron yakushimanum, planting

stock, production, cultural methods

3466

Rhodohypoxis baurii, ornamental value 9716***Rhodohypoxis milloides***, ornamental value

9716

Rhodopaxillus* (see *Lepista*)**Rhodotorula***

control

of *Penicillium expansum*

apples 6588

pears 6588

Rhoeo spathacea

leaves

cytology 656

senescence 656

Rhoicissus rhomboidea* (see *Cissus*rhombifolia*)***Rhopalosiphum insertum***, apples 117**Rhubarb**

flowers, composition 467

Rhubarb cont.

leaves, physiology 10070

reports, Belgium 1888, 9127

Rhus cotinus* (see *Cotinus coggygria*)**Rhynchaenus mangiferae***, mangoes 4621***Rhynchophorus ferrugineus***

coconuts 8133

dates 2628

Rhynchophorus palmarum, oil palms 6435***Rhynchosstylis retusa****in vitro* culture

biochemistry 7942

embryos 7942

Rhyncomya forcipata, pollinators, mangoes

55

***Ribes* (see also Black currants; Gooseberries;**

Red currants; White currants)

in vitro culture, plant embryos 3918***Ribes aureum***, *in vitro* culture, storage 6650***Ribes burejense***, taxonomy, chemotaxonomy

1189

Ribes diacantha, *in vitro* culture, storage

6650

Ribes odoratum, cultivars, characteristics,

USA 6649

Ribes pauciflorum, taxonomy, chemotaxo-

nomy 1189

***Ribes rubrum* (see also white currants; Red**

currants; red currants)

taxonomy, chemotaxonomy 1189

Ribes sanguineum, flowers, fragrance, bio-

chemistry 10608

Ribes ussuriense, taxonomy, chemotaxo-

nomy 1189

Ricania marginalis, tea 10015***Ricanula sublimata***, tea 10015**Rice** husks, utilization, growing media,

tomatoes 2302

Ricinocarpus gloria-medii, characteristics

2370

Rigidoporus lignosus, *Hevea* 9077, 10995**Ringing**

responses

Acacia 9794

apples 1066, 1080, 1953, 5603

avocados 3567, 3570

Boehmeria nivea 2571

grapefruits 4523

grapes 4913

kiwifruits 3001

Litchi 1754, 7235

loquats 4545

mandarins 4520, 8961

mangoes 4628

oranges 5365, 7214

peaches 4836, 10213

satsumas 9886

tangors 5397

tomatoes 3305

Riptortus clavatus, persimmons 10895**Roadside plants**, plant, injuries, surveys

2463

Robinia pseudoacacia, bark, biochemistry,

seasonal variation 6521

Robots

utilization

cultural methods, grapes 2083

handling

greenhouse crops 6505

horticultural crops 35

harvesting

apples 5624, 8308

Asparagus 6882*Citrus* 6337

cucumbers 6033

grapes 3068, 4932

greenhouse crops 6505

horticultural crops 6526

melons 6422

mushrooms 2350, 6975, 8229

tea 9101

tomatoes 2316, 6033

vegetables 5768

planting

horticultural crops 1893

vegetables 5768-5769

propagation

cucumbers 10464

horticultural crops 6498

protected cultivation, horticultural

crops 1899

Robots cont.

utilization cont.

- sorting
 - fruit crops 8229
 - vegetables 8229
- spraying
 - grapes 4932
 - greenhouse crops 6505
- thinning, grapes 4932

Rock gardens, ornamental plants 10677**Rockwool**

utilization

- casing, mushrooms 2338
- growing media
 - cucumbers 3171-3174, 4135, 8567
 - Dendrobium* 1606
 - Eustoma grandiflorum* 3413
 - Gerbera* 8664, 8755, 9667
 - horticultural crops 6511
 - melons 908, 3666
 - Phalaenopsis* 1606
 - roses 3498, 8861
 - strawberries 1205, 10296
 - tomatoes 3271-3272, 3278, 3280-3281, 3286, 4216, 8664, 8667, 9226, 9590, 9616
- propagation, chrysanthemums 3387

Rodriguezia, taxonomy, nomenclature 7056**Romania**

- apples, cultivars 3763, 10095
- apricots, cultural methods 9230
- grapes, production 8431
- plums, cultivars 3902
- Salvia officinalis*, production 8907

Roots

biochemistry

- age, *Panax pseudoginseng* 3549, 6286
- cultivars, beetroots 4967
- fertilizers
 - beetroots 4967
 - Panax pseudoginseng* 7171
- flowering, strawberries 4892
- geotropism, *Vicia faba* 10498
- mycorrhizas
 - chives 10395
 - leeks 2124, 5791
 - peas 441
- nutrition, tomatoes 3293
- plant growth regulators, peas 5058
- plant nutrition
 - cucumbers 2205
 - pears 2983
 - Phaseolus vulgaris* 5045
 - quinces 2983
 - tea 7359
- provenance, *Panax pseudoginseng* 3549
- salinity
 - Simmondsia chinensis* 10805
 - tomatoes 5102
- seasonal variation
 - Bupleurum falcatum* 7158
 - strawberries 251
- soil, *Panax pseudoginseng* 6287
- soil pH, carrots 8702
- temperature
 - cucumbers 410
 - Cucurbita ficifolia* 410

books 5537

conferences 4664

development

anatomy

- Cucurbita pepo* 3182
- Opuntia ficus-indica* 5443

assessment

- apples 68
- Brussels sprouts 10451
- cashews 6386
- Dahlia pinnata* 5196
- grapes 68, 1248, 3984, 7628
- Hevea* 5507, 10997
- kiwifruits 68
- leeks 10373, 10451
- passion fruits 10888
- peaches 68, 4834
- plums 4834
- Pyrus pyrifolia* 68

biochemistry

- chicory 1304
- lettuces 5850

Roots cont.

development cont.

biochemistry cont.

- Paonia lactiflora* 2562
- carbon dioxide
 - Agave deserti* 7041
 - apples 84
 - Encelia farinosa* 7041
 - lemons 2613
- containers, ornamental woody plants 2466
- copper
 - container grown plants 4415
 - pot plants 5219
- cultivars
 - beetroots 4968
 - coffee 7303
 - lawns and turf 4353
 - melons 9037
 - Phaseolus vulgaris* 5938
- cultural methods
 - Acer rubrum* 9795
 - apples 6555
 - Betula nigra* 5280
 - lettuces 4991
 - Liriodendron tulipifera* 7974
 - ornamental woody plants 2467, 4428, 7946
 - pawpaws 5504
 - peas 6860
 - Prunus yedoensis* 5280
 - Quercus rubra* 7974
 - Quercus shumardii* 6235
- drought, lawns and turf 10667
- fertilizers, tea 5513
- growing media, cucumbers 8567
- herbicides, lawns and turf 8806
- histology, hyacinths 4321
- in vitro* culture
 - apples 6547
 - Boerhavia diffusa* 3538
 - carnations 10612
 - cherries 10190
 - Lilium japonicum* 10648
 - roses 5271, 9783
- irrigation
 - melons 6415
 - tomatoes 9584
- models
 - oil palms 5499, 9988
 - peas 443
 - tomatoes 5108
- mulching, avocados 797
- mycorrhizas, plums 203
- physiology
 - Hevea* 10001
 - hyacinths 4321
 - Spathiphyllum* 689
 - tomatoes 1448
 - walnuts 8389
- plant extracts, vegetables 4081
- plant growth regulators
 - apples 123, 1100, 6547
 - cherries 10190
 - grapes 3986
 - onions 10387
 - ornamental woody plants 7073
 - peas 5058, 6860
 - Pelargonium hortorum* 5176
 - radishes 7718
- plant nutrition
 - Lilium japonicum* 10648
 - Ocimum basilicum* 10761
 - Phaseolus vulgaris* 5045, 5938
 - spinach 3109
- pollution, peas 438
- propagation
 - Hevea* 2741
 - horticultural crops 32
 - Prunus serotina* 9810
- pruning, tea 9092
- replanting, *Asparagus* 10511
- rootstock scion relationships, apples 2862
- salinity, tomatoes 5102
- seed treatment
 - broccoli 7700
 - onions 3089
- soil compaction
 - oranges 4500
 - Prunus serotina* 9810

Roots cont.development cont. ¹

- soil management, peaches 9287
- soil sickness, *Asparagus* 3225
- soilless culture, melons 9037
- storage
 - onions 342
 - strawberries 7583
- stress, vegetables, reviews 1272
- temperature
 - Agave deserti* 7041
 - bananas 9006
 - Coleus forskohlii* 6285
 - cucumbers 9432
 - Encelia farinosa* 7041
 - grapes 7628
 - lemons 2613
 - okras 9432
 - small fruits 4716
 - temperate fruits 4716
 - tomatoes 9432
- water stress
 - Betula pendula* 8867
 - lawns and turf 666
 - zero gravity, cress 5879
- initiation, histology, *Ficus infectoria* 6218
- injuries, salinity, avocados 796
- mechanical properties
 - measurement
 - carrots 8698
 - radishes 3157-3158
 - plant water relations, carrots 553
 - storage, carrots 10580
 - temperature, carrots 553
- movement
 - assessment
 - fennel 6136
 - Lapeirousia laxa* 6136
- nodulation
 - Cyamopsis tetragonoloba* 2243
 - Maackia amurensis* 4422
 - peas 8615
 - Phaseolus vulgaris* 2227-2228, 3198
 - Psophocarpus tetragonolobus* 5985
- quality
 - age, *Panax pseudoginseng* 6286
 - analysis, carrots 554
 - assessment, radishes 396
 - cultivars
 - beetroots 345, 4967-4968
 - carrots 1480, 6042
 - fertilizers
 - beetroots 345, 4967
 - carrots 6956
 - harvesting date
 - beetroots 345, 4968
 - carrots 1480
 - measurement
 - beetroots 9157
 - carrots 9157
 - seasonal variation, carrots 1480
 - storage, carrots 8709
 - weed control, carrots 2321
- shape
 - cultivars, beetroots 4053
 - spacing, beetroots 4053
- size
 - cultivars, beetroots 4967
 - cultural methods, carrots 7833
 - fertilizers, beetroots 4967
- storage, biochemistry, chicory 1304, 7682

Rootstock scion relationships

compatibility

- apples 3768, 4739, 4747
- apricots 10174, 10176
- Castanea* 10198
- grapes 1225, 2080, 9382-9383, 10316
- hazelnuts 1139, 9271
- lemons 9875
- nectarines 10210
- peaches 4827
- pecans 5680
- plums 10251
- diseases, clementines 10823
- disorders
 - apples 4744
 - mangoes 7327
 - oranges 828, 9876
- fertilizers, apples 2878

Rootstock scion relationships cont.flooding, *Momordica charantia* 10465

flowering

apples 86, 1939-1940

kiwifruits 2995

temperate fruits 78

fruiting

apples 4743

temperate fruits 78

growth

apples 80-81, 83, 93, 1067, 1069, 1932-1934, 1944, 2860-2862, 3758, 3767, 4738-4742, 4745, 4747, 4753, 4755, 6541-6545, 7453, 7456, 7458, 7460-7461, 8249-8251, 8257, 8266, 9178, 9180, 10100-10101

apricots 1130, 10175, 10177

aubergines 3247

avocados 789, 791, 3563

cherries 1991, 6598, 9266, 10189

Citrus hassaku 5367

grapefruits 6314

grapes 3032, 7602-7604, 9381

guavas 6424

limes 10833

mandarins 10831

mangoes 5495

nectarines 3840-3841, 3846

olives 6360

oranges 1715, 2590-2591, 3584, 4496-4497, 4503, 6314, 10829

peaches 2947, 3841, 3855, 4829, 5654, 6613, 7528, 10209

pears 3887

pistachios 3900, 7544

plums 8380

roses 7094

temperate fruits 78, 3746

tomatoes 8656

models, apples 4745

morphology, limes 10828

physiology

cucumbers 10479

grapefruits 7196

grapes 271, 1249, 3954

tomatoes 10545

plant nutrition

apples 106, 1940, 2864, 4753, 6562, 8278

cherries 2933, 4812

grapefruits 7196

grapes 3031-3032, 3975, 5752, 7603, 8465, 9381

lemons 6313

limes 10826

mangoes 5495

oranges 6313, 7196

peaches 5654

tomatoes 5092, 7790

watermelons 9039

precocity, apples 85

quality

apples 82, 85, 2919, 4752, 4805, 10108

Citrus, reviews 4498

grapes 261, 2079, 3032, 3954

oranges 10830

pears 4843

tea 6452

temperate fruits, reviews 4498

tomatoes 8655

salinity

grapes 2077, 8459

peaches 3857

pistachios 2980

snow, apples 8254

storage, grapefruits 8056

temperature, cucumbers 4131

water stress, apples 94

waterlogging

apples 94

grapes 2077

yields

apples 80-81, 83, 85, 93, 1067-1069, 1932-1935, 2859-2860, 2862-2863, 2878, 3767-3768, 4730, 4738-4739, 4742, 4745-4746, 4748-4751, 6541-6543, 6545, 7453, 7455-7456, 7458-7461, 7468, 8247, 8249-8251, 8256-

Rootstock scion relationships cont.

yields cont.

apples cont.

8257, 9177-9178, 9180, 10100, 10108

apricots 1176, 10175, 10177

aubergines 8641

avocados 789-792, 3563

cherries 1991, 2934, 6598, 9266, 10189

Citrus hassaku 5367

grapefruits 8942

grapes 3954, 4915, 5751, 6686, 6689, 7602, 7604-7606, 8452

lemons 8941, 9875

limes 10833

mandarins 10831-10832

mangoes 10949

nectarines 3840-3842, 3845-3848

oranges 1715, 2590, 3584, 4497, 4503, 10830

peaches 2947, 3841, 3844, 3847-3848, 3855, 4829, 5654, 6613, 10209

pears 3887

pistachios 7544

plums 2027, 8381

roses 3493, 5270, 10726

tea 6452

temperate fruits 3746

Rorippa nasturtium-aquaticum (see Watercress)*Rosa* (see also Roses)

flowers, fragrance, biochemistry 10756

in vitro culture, plant embryos 9784

seeds

germination, seed treatment 4899, 5269

treatment 5269

Rosa acicularis, wild plants, edible species 8430*Rosa canina*

as rootstocks, roses 3492

cultivars, clones 4386

pest control, *Pratylenchus penetrans* 8847

photosynthesis, measurement 3499

wild plants, edible species 8430

Rosa carolina, cultivars, clones 4386*Rosa centifolia*, cultural methods, India 1676*Rosa chinensis*

as rootstocks, roses 3497

in vitro culture, histology 6203

leaves, development, cultural methods 6203

Rosa damascena

cultural methods, India 1676

disease control

Diplocarpon rosae 3527*Phragmidium mucronatum* 3527

fertilizers

nitrogen 9835

phosphorus 9835

potassium 9835

in vitro culture, biochemistry 6206

nutrients, requirements, assessment 7148

production, Bulgaria 10765

pruning, responses 2532

Rosa dumalis, cultivars, clones 4386*Rosa gallica*, cultural methods, India 1676*Rosa kordesii*cuttings, rooting, *in vitro* culture 4402*in vitro* culture, propagation, micropropagation 4402*Rosa majalis*, wild plants, edible species 8430*Rosa multiflora*

as rootstocks, roses 3493, 5268, 10724-10726

cultivars, clones 4386

in vitro culture, propagation, micropropagation 2485rootstocks, propagation, *in vitro* culture 2485

seeds, germination, light 2484

Rosa odorata, as rootstocks, roses 3493*Rosa pimpinellifolia*, cultivars, clones 4386*Rosa roxburghii*, fruits, development, biochemistry 4403*Rosa rubiginosa*, cultivars, clones 4386*Rosa rugosa*, pollution, ammonia 8843*Rosa virginiana*, cultivars, clones 4386**Rosaceae**

fruits, development, biochemistry, reviews 4696

taxonomy, chemotaxonomy 4387

Roscoea ganeshensis, taxonomy, new taxa 3440**Rose geraniums** (see *Pelargonium*)*Rosellinia necatrix*, apples 5611**Rosemary** (see *Rosmarinus officinalis*)**Roses** (see also *Rosa*)

budding, work study 10724

buds, development, temperature 1634

cultivars

abscission 2488

assessment, Poland 5268

cut flowers 1635

cuttings 10723

disease resistance 5268, 7093

pest resistance 5268

cut flowers

cultivars 5268, 7959

development, physiology 9787

disease control 4404-4405, 7097

drying 5162

economics, Brazil 7958

packing 728

pest control 7963

plant water relations 8864, 9789-9790

preservatives 1635, 4283, 4407, 6207, 7966, 9650

production

books 6475

cultural methods 3497, 4276, 6197, 6199-6200, 7960, 8859, 8862

models 8863

production possibilities, Mauritius 10605

quality

environment 7098

humidity 9792

soilless culture 8858

responses, gamma radiation 5168

senescence 4283

storage 7965

vase life 1635, 7965-7966, 8864, 9650

vase water, microorganisms 9791, 10728

water relations 6208, 7959, 7964

cuttings

rooting, *in vitro* culture 4402

sources, assessment 10723

disease control

Agrobacterium tumefaciens 7962*Botrytis cinerea* 4404, 7097*Diplocarpon rosae* 5273*Sphaerotheca pannosa* var. *rosae* 726, 5274

disorders 7962

fertilizers 6200

nitrogen 3494, 7960

phosphorus 7960

potassium 7960

flowers

abscission, cultivars 2488

development

physiology, reviews 2487

pruning 7096

senescence 3501, 6207

grafting

cultural methods 5270

unions, anatomy 10726

harvesting, techniques, assessment 8864

in vitro culture

cell suspensions 5275-5276

culture media 3376

explants, sources 4401

genetic transformation 10727

histology 6203

organogenesis 1633, 4401, 5271, 8857, 9783, 10727

plant embryos 2486

propagation

micropropagation 724, 4402

techniques 1632, 7095

irrigation, requirements, determination 8859

leaves

development, cultural methods 6203

- Roses** *cont.*
 leaves *cont.*
 ultrastructure 4407
 pest control
 Macrosiphum euphorbiae 7963
 Macrosiphum rosae 6202
 Tetranychus urticae 727, 2831, 6201
 plant
 biochemistry 5276
 development, models 6199, 6204-6205
 plant nutrition
 nitrogen 7961, 9785
 potassium 6200
 trace elements 8862
 planting
 spacing 7094
 systems 8856
 planting stock
 production, cultural methods 3492
 quality, assessment 9788
 pot plants
 longevity 4406
 production, cultural methods 725, 6198
 quality
 assessment 9788
 plant nutrition 9647
 propagation, techniques 3492
 protected cultivation
 cultivars 5268, 8856
 cultural methods 3496
 economics 3495
 energy requirements 3495
 fertilizers 5272
 growing media 6197
 humidity 8858
 light 3494
 microclimate 3500
 pest control 727, 3495, 7963
 shading 725
 pruning, responses 7096
 roots, development, *in vitro* culture 5271, 9783
 rootstock scion relationships
 growth 7094
 yields 3493, 5270, 10726
 rootstocks, pest resistance 1631
 shoots, development, pruning 7096
 soilless culture
 nutrient solutions
 electrical conductivity 8858
 salinity 7964, 8860
 plant nutrition 3498, 8861
 plant water relations 8861
 stems, ultrastructure 9786
 storage, quality, cultural methods 6198
 translocation, source sink relations 8184
 transpiration, measurement 3500
- Rosmarinus officinalis**
 cultivars, characteristics, UK 10741
 pollen, development, assessment 8017
- Rotylenchulus reniformis**
Hemerocallis 5186
 pineapples 934, 8159-8160
- Rough lemons**
 as rootstocks
 Citrus 3591
 Citrus nobilis × mandarins 3583
 clementines 10823
 grapefruits 7196, 8942
 lemons 8941, 9875
 limes 9874, 10833
 mandarins 10832
 oranges 828, 2590-2591, 7196
 plant growth regulators, paclobutrazol, responses 5366
 seeds, treatment 5364
- Rozites caperatus**, pollution, radionuclides 7845
- Rubber** (see *Hevea*)
- Rubia tinctorum**
in vitro culture
 biochemistry 8002
 cell suspensions 8898
 responses, pH 8898
- Rubidium**
 composition
 bananas 9935
 coffee 9029
 grapes 4001
- Rubidium** *cont.*
 plant nutrition
 cucumbers 8570
 oranges 5382
 sour oranges 5382
 uptake, radishes 4124, 5010
- Rubus** (see also Blackberries; Boysenberries; Raspberries)
 disease control, raspberry bushy dwarf
 ideavirus 5697
 fruits, composition 1196
in vitro culture, propagation, micropropagation 5697
 leaves, composition 9348
 reproduction, biology 232
 species, nutritive value 1196
- Rubus arcticus**
 cultivars, assessment, Finland 5707
 cultural methods, UK 6660
 fruits, biochemistry, cultivars 5707
 processing, quality, cultivars 5707
- Rubus chamaemorus**
 seeds, germination, seed treatment 6661
 wild plants, utilization, Russia 7571
- Rubus ellipticus**, wild plants, edible species 1917
- Rubus inermis**, reproduction, biology 232
- Rubus occidentalis**, mulching, materials 2045
- Rubus rosaefolius**, wild plants, edible species 1018
- Rubus thibetanus**, shoots, composition 742
- Rubus ursinus**, seeds, germination, seed treatment 6661
- Rudbeckia hirta**
 buds, development, anatomy 4315
 growing media, pH 6081
 herbicides, injuries 6085
in vitro culture, propagation, micropropagation 5191
 roots, composition 5191
 shoots, biochemistry, flowering 7882
- Rudbeckia purpurea** (see *Echinacea purpurea*)
- Rumex**, as weeds, vegetables 320
- Rumex acetosa**, protected cultivation, systems, plastic film 2273
- Rumex bucephalophorus**, as weeds, olives 7242
- Rumex crispus**, as weeds, apples 8269
- Rumex vesicarius**
 plant, composition 4004
 wild plants, edible species 4004
- Rumohra adiantiformis** (see *Arachniodes adiantiformis*)
- Runners**, production, cultural methods, strawberries 4885
- Rupestris stem pitting**, grapes 277
- Ruscus**, pest control, Nematoda 5245
- Ruscus hypophyllum**, shade, responses 5160
- Russia**
Actinidia kolomikta, ecology 4869
 apples, cultivars 1065, 4728, 4736
 arboreta 5258
 black currants, cultivars 2043
 cabbages
 cultivars 3135
 pest control 3144
 carrots, cultivars 3312
 cherries, cultivars 4810
 cucumbers, cultivars 1351
 Cucurbitaceae, surveys 7406
Elsholtzia ciliata, production possibilities 8009
 fruit crops, research 1022
 gooseberries, cultivars 2043, 4872
Hippophae rhamnoides, cultivars 2071-2072
 leeks, cultivars 5788
Lonicera, cultivars 1192
 medicinal plants, ecology 2537
Ocimum basilicum, cultivars 2531
 Orchidaceae
 conservation 5251
 surveys 3459
 pears, cultivars 5672
 plums, cultivars 2025
 raspberries, cultivars 1192
 red currants, cultivars 2043
Rubus chamaemorus, wild plants, utilization 7571
- Russia** *cont.*
Schisandra chinensis, ecology 4869
 tomatoes, cultivars 1432
Vaccinium uliginosum, climate 9350
 wild plants, edible species 8430
- Rutabaga** (see *Swedes*)
- Rutidosis leptorrhynchoides**, characteristics 2370
- Rwanda**
 bananas
 production 1778
 research 1778
- Rye**
 as cover crops
 hops 9841
 horticultural crops 5563
 tomatoes 500, 7806
 as green manures, tomatoes 6014
- Sagina procumbens**, as cover crops, apples 9185
- Saintpaulia**
 pest control, *Frankliniella occidentalis* 2389
 pot plants
 production, cultural methods 725
 storage 10607
 protected cultivation, shading 725
- Saissetia oleae**, lemons 1728
- Salacca edulis**, fruits, characteristics 2780
- Salacca zalacca**, production, Indonesia 7379
- Salinity** (see also Soil salinity)
 horticultural crops
 conferences 7393
 reviews 7416
 injuries
 avocados 796
 citranges 8064
 grapefruits 8063
 mandarins 8064
 oranges 8063
 ornamental woody plants 2469
 responses
 Acanthocereus colombianus 7258
 algae 776-777
 Anethum graveolens 10747
 Annona squamosa 6372
 apples 106, 6562, 8278
 aubergines 400, 2285-2286
 bananas 8121
 Capsicum 5998, 8627-8628
 carrots 8704
 celery 1488
 Coriandrum sativum 7139
 cucumbers 400, 2206, 6026
 Cucurbita pepo 5019
 dates 9898
 endives 3077
 fennel 3077
 figs 3826
 Gaillardia pulchella 7007
 grapes 8459
 guavas 915, 9050
 Hyoscyamus muticus 2557
 lettuces 2157, 3077, 7688
 Malus micromalus 6559
 mangoes 7326
 melons 1815
 Mesembryanthemum crystallinum 3453, 4365-4366, 5244, 6161-6162, 8827
 Ocimum basilicum 9832
 olives 2650, 3621, 10887
 onions 3092, 4960
 Opuntia ficus-indica 7258
 oranges 834, 1724
 peaches 177, 3631, 3857, 5660
 peaches × almonds 177
 peas 5966, 9535
 Phaseolus vulgaris 2236
 Phyllanthus emblica 2779
 Plantago ovata 9857
 pomegranates 1766, 3631
 radishes 2192, 7721
 roses 8860
 sapodillas 7349
 Simmondsia chinensis 10805
 sour oranges 7201
 spice plants 10745-10746
 spinach 4973
 spinach beets 6774

Salinity cont.

responses cont.

tomatoes 514, 534, 1449, 2314, 3266, 3282, 4227-4228, 4238, 5101-5103, 6007, 6017, 6026, 6934, 6941, 8675, 8689, 9591, 10550-10551, 10561

Vicia faba 2241

Ziziphus mauritiana 10020

Ziziphus rotundifolia 11018

reviews, avocados 796

rootstock scion relationships, grapes 2077

tolerance

apples 6560

avocados 791

figs 2944, 3826

fruit crops 10061

melons 9965

Mentha 8013

olives 4548

onions 1289

Phaseolus vulgaris 6843

pistachios 2980

tomatoes 513, 1896, 4229, 9572, 9607

Vicia faba 5955

Salix, plant extracts, application, *Pleurotus ostreatus* 3370

Salix alba

cut stems, production, cultural methods 6236

planting, spacing 6236

Salix caprea, weed control 2372

Salix chaenomeloides

cut flowers, production, cultural methods 6236

planting, spacing 6236

Salix cinerea, pest control, voles 2513

Salix erythroflexuosa

cut stems, production, cultural methods 6236

planting, spacing 6236

Salix koriyanagi, ornamental value 2514

Salvia

cultivars, assessment, USA 5156

manures 3520

Salvia farinacea

herbicides, injuries 8745

seeds, viability, tests 10633

Salvia fruticosa, seeds, germination, physiology 9827

Salvia hispanica

production possibilities, Argentina 7403

seeds, sowing, sowing date 10815

Salvia officinalis

cuttings, rooting, seasonal variation 756

herbicides, injuries 9833

leaves

biochemistry 3528

senescence 6257

mulching, responses 3529

plant, biochemistry, cultivars 10766

production, Romania 8907

seeds

set, assessment 756

sowing, sowing date 3529

weed control 9833

Salvia pomifera, seeds, germination, physiology 9827

Salvia sclarea, fertilizers, nitrogen 5322

Salvia splendens

herbicides

responses 3720

tolerance 2377

mulching, responses 3720

planting stock

production

cultural methods 7883

soilless culture 8743

seeds

production, assessment 7884

viability, tests 10633

weed control 2377

Sand

utilization

casing, *Ganoderma lucidum* 3358

growing media

Angelica archangelica 1672

carnations 9657

chrysanthemums 3389, 3391

Cotoneaster dammeri 8873

Sand cont.

utilization cont.

growing media cont.

cucumbers 5892

Cupressus sempervirens 9772

Ficus infectoria 6218

Forsythia ovata × *Forsythia*

europaea 8873

Gerbera 8755

grapes 9381

Hebe 3505

Hylocereus undatus 11023

lettuces 9459

Lilium 7896

melons 908

Opuntia microdasys 684

ornamental woody plants 6185

peaches 4827-4828

Prunus cistena 6232

roses 6197

strawberries 10294

Swietenia mahagoni 5296

Syzygium aromaticum 8019

tomatoes 3281, 5099, 7803, 9590

mulches, *Annona squamosa* 2670

propagation

Camellia hiemalis 1620

Ficus 10686

Hevea 10991

Lagerstroemia indica 7973

poinsettias 5264

Sandersonia aurantiaca

cut flowers

quality, cultural methods 4339

senescence 4338

disease control, *Rhizoctonia solani* 9717

tubers, sprouting, storage 4339

Sansevieria deserti, characteristics 7049

Santalum acuminatum, seeds, germination, cultural methods 1770

Sapodillas

cropping systems, agroforestry 1840

disease control, *Phomopsis sapotae* 916

disorders, chilling injury 6449

fertilizers, calcium 9086

fruits

development, assessment 3734

ripening, storage 9085

grafting

scions, assessment 11000

seasons 1846

techniques, inarching 9083

photosynthesis, salinity 7349

plant growth regulators

chlormequat, application date 10003

gibberellins, application date 10003

NAA, application date 10003

pollen, germination, *in vitro* culture 9084

research, Guatemala 11026

salinity, responses 7349

seeds

composition 9109

development, embryology 4643

treatment 10999

storage

quality, cultural methods 9086

systems

cold storage 6449

modified atmosphere storage 6449

treatment 950, 6524, 9085-9086

Sapogenins

composition, *Trigonella foenum-graecum*

2567

metabolism, cultural methods, *Dioscorea*

floribunda 10783

production, cultural methods, *Dioscorea*

deltoidea 2545

taxonomy, *Trigonella* 8928

Saponins

characterization, *Apios americana* 455

composition

Pterocarya paliurus 4472

tea 7368

Vernonia amygdalina 2176

metabolism

age, *Panax pseudoginseng* 3549

cultural methods, *Phytolacca dode-*

candra 9843

light, *Panax pseudoginseng* 1689

phosphorus, *Panax pseudoginseng*

7171

Saponins cont.

metabolism cont.

provenance, *Panax pseudoginseng*

3549

seasonal variation, *Bupleurum fal-*

catum 7158

soil, *Panax pseudoginseng* 6287

production, cultural methods, *Phytolacca*

dodecandra 2563

responses

carrots 5140

vegetables 4081

Sarawak, *Metroxylon*, research 973

Sarcoglottis, taxonomy, nomenclature 7056

Sarothamnus (see *Cytisus*)

Sarracenia flava, plant, composition 2391

Sarracenia purpurea, plant, composition

2391

Sasa, taxonomy, nomenclature 10742

Satsumas

buds

dormancy

fruiting 2615

seasonal variation 2615

temperature 836

in vitro culture 2615

climate, microclimate 5391

cold

resistance

biochemistry 10842

cultural methods 10842

cultivars

assessment, New Caledonia 4493

characteristics

China 10822, 10825

Japan 10825

USA 1713

disorders, rind pitting 5406

fertilizers

calcium 10840

nitrogen 10841

phosphorus 8945, 10840-10841

potassium 10840-10841

rare earth elements 4507

flowers

biochemistry, development 10861

development, temperature 5391

initiation

physiology 3604

plant growth regulators 835

forcing 823

fruits

biochemistry

fertilizers 10841

water stress 8077

colour, plant growth regulators 8076

composition 4532, 5394, 7230, 10867

development

biochemistry 10861

plant growth regulators 3608,

8963

protected cultivation 10857

drop, temperature 3605

mechanical properties, assessment

6344

quality

climate 5391

fertilizers 8945

interstocks 9879

plant growth regulators 10866

plant nutrition 4507

storage 9895

size, cultural methods 8964

thinning, responses 4521, 8962

green manures 10841

heat, responses 1737

interstocks 9879

irregular bearing, thinning 4521

leaves, colour, measurement 6320

manures 10840

mycorrhizas 3587, 5377

photosynthesis

biochemistry 3600

cultural methods 8962

diurnal variation 832, 3600

photoinhibition 832

temperature 1737

plant growth regulators

abscisic acid, metabolism 3605, 8963

4-chloro-*o*-tolylloxycetic acid,

responses 4705

Satsumas *cont.*

- plant growth regulators *cont.*
 - dichlorprop, responses 4705
 - gibberellic acid, responses 8963
 - IAA, metabolism 3605
 - paclobutrazol, responses 8963
 - 3,5,6-trichloro-2-pyridyloxyacetic acid, responses 4705
- plant nutrition
 - nitrogen 10842
 - phosphorus 10842
 - potassium 10842
- plant water relations, water stress 8077
- protected cultivation
 - harvesting date 10857
 - temperature 10857
- regeneration, topworking 1719, 9883
- ringing, responses 9886
- shoots, biochemistry, seasonal variation 10854
- soil types 4507
- storage
 - biochemistry 5399
 - physiology 10079
 - quality
 - fertilizers 3611
 - plant growth regulators 3611
 - systems, controlled atmosphere storage 10079-10080
 - temperature 6339
 - treatment 3610-3611, 5406, 8967, 9895
 - topworking 1719, 10839
- Satureja hortensis*, manures 3520
- Satureja thymbra*
 - ecology, Greece 1670
- seeds
 - germination
 - inhibitors 1670
 - light 1670
 - temperature 1670
- Saudi Arabia**, tomatoes, production 6916
- Sauromatum guttatum*, inflorescences, composition 2417, 7885
- Sauropus androgynus*, production possibilities, India 10359
- Savory** (see *Satureja*)
- Sawdust**
 - utilization
 - growing media
 - Armillaria* 10588
 - Armillaria mellea* 6977
 - Auricularia polytricha* 3355, 5148
 - edible fungi 2334
 - Ficus benjamina* 10687-10688
 - Grifola frondosa* 8729
 - Hericium erinaceus* 3359
 - Lentinula edodes* 6069, 7853
 - Lentinus lepideus* 6070
 - mushrooms 567
 - Pleurotus ostreatus* 5150, 6074, 10594
 - Pleurotus sajor-caju* 6075
 - pot plants 1519
 - Prunus cistena* 6232
 - Syzygium aromaticum* 8019
- mulches
 - Annona squamosa* 2670
 - apples 1945, 8264, 10110
 - bananas 1781
 - okras 9550
 - raspberries 2046
 - tea 7357
 - Vaccinium corymbosum* 3009, 9353
- propagation
 - Ficus* 10686
 - Lilium* 645
 - Lilium lancifolium* 645
 - walnuts 9329
- soil amendments
 - onions 10381
 - sour oranges 9881
 - Vaccinium corymbosum* 7575
 - Zingiber officinale* 10753

Saxifraga cernua, water stress, responses 6117

Scabiosa

- cuttings, production, techniques 2395
- shoots, development, plant growth regulators 2395

Scabiosa *cont.*

- taxonomy, chemotaxonomy 8927
- Scabiosa atropurpurea*, cut flowers, production, USA 1529
- Scaevola*, cultivars, characteristics, Australia 9642
- Scarabaeidae**, strawberries 5733
- Scelochilus*, taxonomy, nomenclature 7056
- Schefflera*, pot plants, storage 10607
- Schefflera actinophylla*, pot plants, production, cultural methods 5219
- Schefflera arboricola*
 - photosynthesis
 - biochemistry 7050
 - carbon dioxide 688
 - light 688
- Schefflera venulosa*
 - irrigation, insecticides, application 2482
 - pest control, *Myzus persicae* 2481-2482
 - soilless culture, pest control 2481
- Schisandra chinensis*
 - ecology, Russia 4869
 - plant, development, assessment 4869
- Schizaphis*, lawns and turf 5213
- Schizobasis*, taxonomy, keys 8784
- Schizophyllum commune*, composition 8722
- Schizothyrium pomi*, apples 3805
- Schlecterina mitostemmatoides*, *in vitro* culture, biochemistry 1706
- Schoenorchis latifolia*, characteristics 7943
- Scilla*, taxonomy, keys 8784
- Scindapsus aureus* (see *Epipremnum pinnatum*)
- Sciothrips cardamomi*, *Alpinia purpurata* 653
- Scirtothrips aurantii*, *Citrus* 7209
- Scirtothrips citri*
 - Citrus* 2604, 8952
 - oranges 8951
- Scirtothrips dorsalis*
 - Capsicum* 6904
 - grapes 2103, 7625
 - mandarins 3597
- Scirtothrips kenyanensis*, tea 9097
- Sclerocystis rubiformis*
 - mycorrhizas
 - Cyamopsis tetragonoloba* 3209
 - Ziziphus xylopyrus* 11017
- Sclerotinia homoeocarpa*, lawns and turf 2425, 8808
- Sclerotinia sclerotiorum*
 - carrots 9623
 - Carum carvi* 1673
 - cauliflowers 10447
 - celery 1490
 - cucumbers 8575
 - lettuces 5846
 - Phaseolus coccineus* 1380
 - tomatoes 2305
- Sclerotinia squamosa*
 - onions 8509-8510
 - Welsh onions 9450
- Sclerotium cepivorum*
 - garlic 3084
 - onions 4044
- Scolytus seulensis*, apricots 6595
- Scoring**
 - responses
 - apples 10116
 - figs 1142
 - pummelos 2593
 - Scorpiurus*, as weeds, olives 8097
 - Scorzonera*, reports, Belgium 1015
 - Scorzonera hispanica*, reports, Belgium 1886, 10055
 - Scrobipalpa absoluta*, tomatoes 6021
- Scutellaria*
 - pollen, morphology 772
 - seeds, morphology 772
 - taxonomy
 - keys 772
 - revisions 772
- Scutellaria comosa*, roots, composition 5307
- Scutellonema brachyurus*, *Hemerocallis* 5186
- Scutellospora calospora*
 - mycorrhizas
 - Cyamopsis tetragonoloba* 3209
 - Ziziphus mauritiana* 5518
 - Ziziphus xylopyrus* 11017

Scutellospora heterogama, mycorrhizas, oranges 8061

Scutellospora pellucida, mycorrhizas, oranges 8061

Seaweeds

- plant extracts, application, cucumbers 416
- utilization
 - fertilizers
 - Cucurbita pepo* 10490
 - figs 9272
 - grapefruits 5379
 - Hibiscus rosa-sinensis* 6224
 - oranges 5379
 - Phaseolus vulgaris* 10490
 - tomatoes 5100

Sechium edule

- storage
 - temperature 5038
 - wrappings 5038

Sedum, taxonomy, chemotaxonomy 4359

Sedum acre

- irrigation, requirements, determination 6152
- utilization, ground cover plants 6152

Sedum aizoon, photosynthesis, CAM pathway 10692

Sedum album

- as weeds, olives 7242
- leaves, physiology 7924
- pollution, ozone 7924

Sedum spectabile, frost, resistance, assessment 1595

Sedum spectabile × *Sedum telephium*, frost, resistance, assessment 1595

Seedlings

- biochemistry
 - growing media, *Cupressus sempervirens* 9772
- light
 - cucumbers 6835
 - Pharbitis nil* 6099
 - squashes 5917
- photoperiod
 - Pharbitis nil* 6099
 - squashes 5917
- plant growth regulators
 - peas 2253
 - Phaseolus vulgaris* 6853
- salinity
 - radishes 2192
 - spice plants 10746
- temperature
 - cabbages 10453
 - cucumbers 6810
 - Cucurbita pepo* 5908
 - squashes 5917

development

- allelopathy
 - lettuces 1308
 - tea 7355
- assessment
 - broccoli 2179
 - Calendula officinalis* 3405
 - coconuts 7289
 - cucumbers 5021
 - Juglans nigra* 10254
 - pears 2014

bacteria, *Myrica rubra* 5449

biochemistry

- almonds 5589
- carobs 10821
- Catharanthus roseus* 8025
- cucumbers 8563
- Cucurbita ficifolia* 397
- Dioscorea tokoro* 8918
- Hevea* 10990
- peaches 1155

cultivars

- Capsicum* 9558
- cucumbers 5027
- lettuces 1308

cultural methods

- Capsicum* 9559
- Gerbera* 6097
- guavas 7317
- peas 6860
- vegetables 321, 1259

fertilizers

- Cupressus sempervirens* 9771
- peaches 2955-2956

Seedlings cont.

development cont.

fertilizers cont.

pears 2955-2956

growing media

Cupressus sempervirens 9772*Syzygium aromaticum* 8019

tomatoes 5090

in vitro culture

cucumbers 4129

Laelia cinnabarina 7059

light

cabbages 1903

cucumbers 412

Cupressus sempervirens 9771*Gerbera* 6097*Spiranthes odorata* 705

measurement, tomatoes 490

models, cucumbers 4130

morphology

Acanthaceae 5158

ornamental plants 5163

mycorrhizas

apples 10119

Asparagus 10512*Caladenia latifolia* 4372

coffee 1805, 3660

Diuris magnifica 4372*Malus micromalus* 5599*Malus prunifolia* 5599*Malus sieversii* 5599*Malus toringo* 10119*Spiranthes odorata* 705*Tagetes erecta* 7013

Welsh onions 3101

Zinnia elegans 7013nitrogen, *Myrica rubra* 5449

physiology

cherries 8333

Protea 1655

plant growth regulators

almonds 5589

Eschscholzia californica 7004*Gerbera* 6097

peas 5575, 6860

Pharbitis purpurea 3398*Phaseolus vulgaris* 8596

radishes 7720

sapodillas 10999

plant nutrition, *Laelia cinnabarina*

7059

pollution

radishes 5011

Vicia faba 2240

rootstock scion relationships,

mangoes 7327

salinity, *Ocimum basilicum* 9832

seed treatment

apricots 10172

broccoli 7700

Capsicum 9558

Chinese cabbages 3136

Citrus 5364

cucumbers 1352

Gerbera 6097

onions 10388

tomatoes 9574

Trigonella foenum-graecum 5324

soil amendments

radishes 6800

tomatoes 3275

Welsh onions 3101

soil conditioners, cucumbers 10463

soil sickness, *Asparagus* 3225soil types, *Jatropha curcas* 6293

stress, vegetables, reviews 1272

temperature

Amaranthus lividus 557*Capsicum* 9566

cucumbers 5027, 9432, 9516

mangoes 4630

okras 9432

tomatoes 9432

ultraviolet radiation

Cosmos bipinnatus 3411

cucumbers 8581

tomatoes 8581

water stress, *Trigonella foenum-**graecum* 5324

emergence

allelopathy, lettuces 1308

Seedlings cont.

emergence cont.

assessment, onions 10377

cultivars, lettuces 1308

cultural methods

Bupleurum falcatum 10779*Capsicum* 5995

tomatoes 7791

mulching, *Phaseolus vulgaris* 6842

pollution

Momordica charantia 465

okras 465

seed treatment

broccoli 4086

Citrullus colocynthis 6279*Coriandrum sativum* 9816

cucumbers 5088

lettuces 10408

tomatoes 1437, 5088, 6007

watermelons 1809

soil structure, vegetables 1269

sowing, onions 4038

tests, *Taraxacum officinale* 7179

grafting, techniques, tomatoes 5091

greening, biochemistry, cucumbers 4152

injuries, seed treatment, *Astragalus* 3537

movement

assessment

fennel 6136

Lapeirousia laxa 6136

planting

age

Solidago virgaurea 2175

tomatoes 4208

equipment

Capsicum 2276

tomatoes 2276

vegetables 5768

mechanical methods

horticultural crops 1893

vegetables 5769, 6728

production

containers

Capsicum 5073

cucumbers 5892

lettuces 6777

melons 6411

onions 10378

tomatoes 2294

watermelons 1811

cultural methods

bedding plants 3380

books 5530

cabbages 8544

celery 905

Chinese cabbages 5008

Cosmos bipinnatus 3411

cucumbers 5892

leeks 1281

lettuces 6777

melons 905

Metraxylon sagu 981

onions 337, 4959

tomatoes 491-492, 905, 2290,

10544

vegetables 328, 1261, 9419

energy requirements, horticultural

crops 6498

equipment

horticultural crops 6499

vegetables 5769, 6727-6728

growing media

cucumbers 4130

horticultural crops 2813

tomatoes 5090, 7792

vegetables 1268

handling, horticultural crops 35

labour requirements, horticultural

crops 6498

plant nutrition, *Petunia* 7001

protected cultivation

cabbages 5864

tomatoes 2293-2294

quality

assessment, cabbages 5860

determination, Orchidaceae 8832

shape, determination, Orchidaceae 8832

storage, bedding plants 3380

treatment

cold, cucumbers 9501

Seedlings cont.

treatment cont.

drought

aubergines 5089

tomatoes 5089

fertilizers, *Pelargonium hortorum*

9671

light, celery 8712

mechanically induced stress

aubergines 5089

tomatoes 5089

temperature, *Pelargonium hortorum*

9671

Seeds

aroma

biochemistry

cocoa 1796, 7286-7287

coffee 3662

artificial seeds

Armoracia rusticana 6243

fruit crops 2811

pawpaws 930

pistachios 7545

biochemistry

plant growth regulators, walnuts

10256

storage, *Hevea* 948

colour, assessment, pecans 8376

conferences 15

development

anatomy

Anthurium andraeanum 7870

Asteraceae 3727

Eucommia ulmoides 2547

apomixis

Achillea collina 8761*Achillea millefolium* 8761*Achillea pannonica* 8761

apples 5623

Commiphora wightii 8915*Malus* 5623

assessment

Agapanthus praecox 5178

cucumbers 1370

peaches 2966

Prunus pseudocerasus 164

biochemistry

apples 7492

Azadirachta indica 10771

cucumbers 4156

Hevea 10990

oil palms 926

peas 5055, 10499, 10508

Phaseolus 9529

cultivars

chicory 4069

cucumbers 4156

grapes 2101, 2104

mandarins 5362

peaches 2966

cultural methods

grapes 5766

okras 6893

embryology

Achillea collina 8761*Achillea millefolium* 8761*Achillea pannonica* 8761

apricots 1131

chestnuts 1138

Cymbidium sinense 698, 8838

longans 3616, 7238

peas 2261

Pistacia mutica 2022*Polygonum capitatum* 619*Prunus mume* 2927*Psophocarpus tetragonolobus*

8616

sapodillas 4643

environment, grapes 2101, 2104

fertilizers, *Cucurbita moschata* 3169

histology

aubergines 7785

Castanea 2939*Solanum violaceum* 7785

in vitro culture, cauliflowers 8545

models

Crotalaria medicaginea 5050*Phaseolus vulgaris* 5050*Solanum seafortianum* 5050*Vigna unguiculata* 5050

- Seeds cont.**
 development *cont.*
 physiology
 Clausena lansium 1769, 4567
 Lagenaria siceraria 10480
 mangoes 7336
 peas 437
 tropical crops 2668
 plant growth regulators
 Dahlia pinnata 8785
 Litchi 2637
 longans 2637
 Pimenta dioica 7993
 Pyrus pyrifolia 2972
 plant nutrition
 Banksia hookeriana 7103
 grapes 5766
 pollen, pummelos 10855
 pollination
 apples 4790
 cherimoyas 7264
 clementines 5392
 cocoa 10918
 oranges 5392
 pollution, *Vaccinium myrtillus* 6663
 polyembryony
 Commiphora wightii 8915
 oranges 2620
 salinity, *Coriandrum sativum* 7139
 seasonal variation, grapes 5766
 shade
 Agapanthus praecox 5178
 grapes 5764
 spacing, *Cucurbita moschata* 3169
 temperature
 cucumbers 3190
 grapes 5764
 ultrastructure, *Solanum nigrum* 1692
 dormancy
 assessment, apricots 155
 biochemistry, *Cynoglossum officinale* 8028
 physiology
 Euonymus carnosus 2499
 plants 1026
 reviews 3718
 seed treatment
 grapes 10314
 Opuntia ficus-indica 9921
 storage, *Opuntia ficus-indica* 9921
 flavour, biochemistry, cocoa 894
 germination
 age, *Catharanthus roseus* 2540
 allelopathy
 lettuces 3126
 vegetables 1266
 anatomy
 Cymbidium sinense 6171
 Hevea 9067
 Lilium pensylvanicum 4327
 assessment
 apricots 155
 Cymbidium kanran 10702
 medicinal plants 759
 Musa 5455
 tomatoes 1438
 biochemistry
 apples 9176
 coconuts 2688
 cucumbers 5014, 5016, 5912, 7732, 8563
 Cucurbita ficifolia 397
 Cucurbita pepo 10486
 Dioscorea tokoro 8918
 lettuces 1305, 2158
 Leucospermum 3508
 Nelumbo nucifera 672, 7914
 okras 6886
 peas 2245-2246, 4171, 5055-5056, 10487, 10499-10500, 10508
 Phaseolus vulgaris 5931-5932, 10486-10487
 radishes 5881
 tomatoes 1439, 3257, 6009
 vegetables 314
 Vicia faba 428-429, 10497
 watermelons 9961
 cultivars
 Capsicum 9558
 carrots 1481, 8700
 cucumbers 4156
- Seeds cont.**
 germination *cont.*
 cultivars *cont.*
 melons 2701
 peas 8603-8604
 strawberries 241
 cultural methods, *Santalum acuminatum* 1770
 culture media
 ornamental palms 2430
 Phaius tankervilleae 4382
 cytology, *Capsicum* 9557
 environment, plants 1026
 growing media
 Bactris gasipaes 5524
 Hevea 10991
 lettuces 2157
 Rhododendron 6191
 Syzygium aromaticum 8019
 tomatoes 5090, 7792
 harvesting date, cucumbers 2220
 in vitro culture
 Calanthe discolor 1598
 cucumbers 4129
 Cypripedium acaule 2440
 Microtis parviflora 702
 Orchidaceae 7055
 Phaius tankervilleae 4382
 inhibitors
 Capsicum 5069
 Chinese cabbages 8543
 lawns and turf 5210-5211
 okras 5069
 Origanum vulgare 1670
 Satureja thymbra 1670
 Thymus capitatus 1670
 light
 Asteraceae 594
 celery 2329, 3319
 cucumbers 5016
 essential oil plants 9827
 Nigella sativa 9855
 Origanum vulgare 1670
 Pachycereus pringlei 8830
 Petroselinum crispum 6267
 Rosa multiflora 2484
 Satureja thymbra 1670
 Taraxacum officinale 7179
 Thymus capitatus 1670
 maturity
 apples 3800
 cucumbers 4156
 moisture content, *Chamaedorea* 5233
 mulching, *Phaseolus vulgaris* 6842
 mycorrhizas, Orchidaceae 6167
 oxygen, melons 2701
 physiology
 broccoli 9417
 cabbages 9417
 carrots 1481, 9417
 essential oil plants 9827
 Ferocactus peninsulæ 8829
 lettuces 1305
 onions 9417
 Pachycereus pecten-aboriginum 8829
 peaches 2966
 peas 436-437
 Phaseolus vulgaris 420
 radishes 9417
 tomatoes 4206, 8654
 plant growth regulators
 celery 3319
 lettuces 2158, 10409-10410
 melons 2701
 peas 10500
 Petroselinum crispum 6267
 tea 11003
 plant water relations, cucumbers 5015-5016
 pollution
 peas 6859
 Vaccinium myrtillus 6663
 Vicia faba 2240
 protected cultivation, cabbages 5864
 salinity
 Anethum graveolens 10747
 lettuces 2157
 Ocimum basilicum 9832
 onions 4960
 Pachycereus pringlei 8830
- Seeds cont.**
 germination *cont.*
 salinity *cont.*
 Phaseolus vulgaris 6843
 spice plants 10746
 Ziziphus rotundifolia 11018
 seed treatment
 apples 4737
 apricots 10172
 Aralia cordata 1495
 Asparagus 5989
 Asteraceae 594, 1530
 Astragalus 3537
 Benincasa hispida 9499
 Berberis buxifolia 760
 Brassica 10448
 broccoli 7700, 9417, 10425
 Bupleurum falcatum 1680
 Bupleurum kanoi 1680
 cabbages 4999, 9417
 Cactaceae 1586
 Calanthe discolor 1598
 Capsicum 470, 7772, 9558, 10524
 carrots 5132, 9417
 Catharanthus roseus 6215
 celery 2329
 Citrullus colocynthis 6279
 Citrus 5364
 Corchorus tridens 4261
 Cosmos bipinnatus 1028
 cucumbers 3191, 5891, 7730
 Cucurbita pepo 9500
 Dodecatheon meadia 3412
 Echinacea 8919
 Echinacea purpurea 5183
 Eschscholzia californica 7004
 jackfruits 7266
 Lagenaria siceraria 10462
 lawns and turf 3442, 7909
 lettuces 1306, 3124, 4986, 10409
 Litchi 2637
 longans 2637
 Luffa acutangula 9499
 Lupinus harvardii 5187
 mangoes 7320
 Matthiola incana 6114
 melons 5483, 7312, 8142
 Metroxylon sagu 981
 Nigella sativa 9855
 okras 464, 2267, 10520
 olives 4547
 onions 1028, 1284, 6749, 9417, 9447, 10388
 Opuntia ficus-indica 9921
 ornamental palms 2430
 Pachycereus pringlei 8830
 Paeonia suffruticosa 7117-7118
 Panax pseudoginseng 4465
 Panax quinquefolius 10794
 Papaver somniferum 10796
 Persoonia sericea 1653
 Phaseolus vulgaris 5045
 Psophocarpus tetragonolobus 5984
 Psoralea corylifolia 2564
 radishes 392, 9417
 Rosa 4899, 5269
 Rubus chamaemorus 6661
 Rubus ursinus 6661
 sapidillas 10999
 Sicyos angulatus 3165
 spinach 10398
 strawberries 241
 tea 11002
 tomatoes 2289, 3191, 3257, 6008, 8652-8653, 10543
 Uniola paniculata 4318
 vegetables 9416
 watermelons 1028, 1810, 10932
 size, *Juglans nigra* 10254
 soil amendments
 beetroots 9418
 lawns and turf 10669
 Petroselinum crispum 9418
 Phaseolus vulgaris 9418
 soil conditioners, cucumbers 10463
 soil types, *Jatropha curcas* 6293
 sowing date 9489
 storage
 Aegle marmelos 9845
 Capsicum 6897

Seeds cont.

germination cont.

storage cont.

Cucurbita pepo 7729, 9500
Echinacea purpurea 5183
 jackfruits 7266
 melons 8142
Opuntia ficus-indica 9921
 peaches 5653
 strawberries 241
Taraxacum officinale 7179
 tomatoes 7791, 8652-8653
Trapa natans 559
Verbascum densiflorum 2569
Verbascum phlomoides 2569

temperature

Abelmoschus moschatus 8900
Amaranthus lividus 557
 Asteraceae 594
Bactris gasipaes 5524
 broccoli 7700
Capsicum 7772
 carrots 1481, 5132, 8700
Catharanthus roseus 6215
 celery 2329
Chamaedorea 5233
Corchorus tridens 4261
 cucumbers 5015, 6810
Epipactis helleborine 3461
 essential oil plants 9827
Hevea 10991
 lettuces 2158, 4986
Lupinus harvardii 5187
 melons 2701, 7312
Myrciaria dubia 10022
Nigella sativa 9855
 olives 4547
Origanum vulgare 1670
 ornamental palms 2430
Pachycereus pringlei 8830
 peas 7756
Petroselinum crispum 6267
Satureja thymbra 1670
Taraxacum officinale 7179
Thymus capitatus 1670
 tomatoes 9576
Trapa natans 559
 watermelons 10932

tests

Acanthaceae 5158
Andrographis paniculata 9847
Anethum graveolens 2519
 cabbages 1260
Capsicum 8622
 carrots 8700
 celery 2329
 coconuts 7289
Epipactis helleborine 3461
 leeks 1260
Lilium pensylvanicum 4323
 onions 1260
Petroselinum crispum subsp.
tuberosum 2330
Phaseolus vulgaris 6843
Taraxacum officinale 7179
 tomatoes 9613

ultrastructure, pumpkins 7731

ultraviolet radiation, *Pachycereus pringlei* 8830

water stress, tomatoes 9576

harvesting, techniques, *Pinus* 5588

imbibition

injuries, *Phaseolus vulgaris* 10488
 moisture content, *Phaseolus vulgaris* 10488
 oxygen, melons 6410
 physiology, peas 7755
 temperature, *Phaseolus vulgaris* 10488

injuries, assessment, *Phaseolus vulgaris* 5949

maturity, assessment, *Phaseolus vulgaris* 7749

mechanical properties

assessment

Azadirachta indica 10777
Castanea 2939
Cuminum cyminum 9817
 peas 1386
Phaseolus vulgaris 5930
Tetracarpidium conophorum 1858

Seeds cont.

mechanical properties cont.

assessment cont.

Vicia faba 1382

cultivars

Castanea 2939
 peas 1388
Phaseolus vulgaris 5930
Vicia faba 1382

moisture content, peas 1388

moisture content

Cuminum cyminum 9817
 peas 1386-1387
 pecans 2019
Phaseolus vulgaris 7749
 radishes 2194
Tetracarpidium conophorum 1858

production

assessment

Agave potatorum 5227
 carrots 8708
Cosmos bipinnatus 4298
 radishes 6805
Salvia splendens 7884
Vaccinium corymbosum 8420

cleaning

cucumbers 3191
 tomatoes 3191

Croatia

horticultural crops 1051
 medicinal plants 2837
 ornamental plants 2837
 vegetables 2837

cultivars

Capsicum 3245
Coriandrum sativum 7132
 onions 4037, 6759
 tomatoes 3309

cultural methods

Amaranthus tricolor 8715
 broccoli 9472, 9488
 cabbages 4117, 8548
Calendula officinalis 4297
Capsicum 4194
 carnations 9659
 carrots 7840
 cauliflowers 4116
 celeriac 7842
 celery 5143
Coriandrum sativum 4434, 5300, 7988

Cosmos bipinnatus 8765
Cuminum cyminum 1663
Datura stramonium 7164
 fennel 8903, 10751
Glycine max 2262
 horticultural crops 5555
 lawns and turf 8813
Matthiola incana 6114
 melons 1818
Momordica charantia 10481
 okras 1408, 5071, 6887, 6894, 9553-9554
 onions 4963, 7674, 10379-10380, 10384, 10390-10391
 books 4656

Papaver somniferum 10796
Phaseolus vulgaris 7750
 radishes 2193, 5835, 8560, 8562
 spinach beets 3121
Tagetes erecta 3421
 tomatoes 1467, 5125, 9613
Trigonella corniculata 8617
 vegetables 328
Withania somnifera 5346

diseases

cauliflowers 10447
 onions 340

drying, *Capsicum* 8622

ecology, *Nuphar lutea* 3446

extraction

cucumbers 2219
 tomatoes 5126
 harvesting, *Capsicum* 2283, 8622
 harvesting date, cucumbers 2220
 Korea Republic, *Eleutherococcus senticosus* 9852
 threshing, radishes 2194
 tropics, onions 5827

Seeds cont.

quality

assessment

cocoa 9022
 lettuces 5851
Phaseolus vulgaris 10488
 biochemistry, vegetables 3070
 books 4658
 cultivars, coffee 4599
 cultural methods
 okras 9553
Vaccinium corymbosum 8419
 harvesting date, cucumbers 2220
 irrigation, *Lemaireocereus quertaroensis* 2666

maturity

Lagenaria siceraria 10480
 tomatoes 5126

plant growth regulators, tomatoes 1467

pollination, carrots 1481

set

assessment, *Salvia officinalis* 756
 breeding, *Cyclamen persicum* 10640
 physiology, *Syzygium cumini* 7381
 pollination
 apples 3800
Blandfordia grandiflora 1572
 cocoa 4594
Lilium longiflorum 10650
Salvia splendens 7884
Vaccinium 5712

size

assessment

Anethum graveolens 2519
Calendula officinalis 3405
Petroselinum crispum subsp.
tuberosum 2330

irrigation, *Lemaireocereus quertaroensis* 2666

pollination, carrots 9622

sowing

depth

onions 4038
Taraxacum officinale 7179
 walnuts 1182

equipment, vegetables 6726

orientation, walnuts 1182

responses, melons 6412

row orientation, carrots 5133

site preparation

Brassica juncea 7701
 cabbages 7701
Capsicum 1414
 kale 7701

sowing date

Brassica 10426
 cauliflowers 4116
 celeriac 7842
 chicory 1301
Coriandrum sativum 10757
Cosmos bipinnatus 8765
Datura stramonium 7164
 globe artichokes 4067
Glycine max 2262
Gypsophila elegans 5185
 lawns and turf 2419
 okras 2272, 6895, 7769
 onions 3090
Papaver somniferum 7173
Phaseolus vulgaris 3195, 7750
 radishes 7717, 9489
Salvia hispanica 10815
Salvia officinalis 3529
 tomatoes 3256, 8649

techniques

melons 2700
Vaccinium 8410

storage

biochemistry, *Phaseolus* 9529
 duration
Capsicum 6897
 mangoes 7320
 moisture content, *Cucurbita pepo* 7729
 physiology, tropical crops 2668, 9923
 seed treatment
Aegle marmelos 9845
Hevea 10991
Moringa oleifera 9625

Seeds cont.

storage cont.

systems

Moringa oleifera 9625
Stevia rebaudiana 1708
 tea 11001
 tomatoes 7791

temperature

Capsicum 10524
 mangoes 7320
Maytenus ilicifolia 8036
 strawberries 241

treatment

accelerated aging

Capsicum 9557
 Chinese cabbages 9470-9471
Cosmos bipinnatus 1028
 cucumbers 5088, 7730
Cucurbita pepo 9500
 lettuces 9449
 melons 8142
 onions 1028
 radishes 9470-9471
 tomatoes 5088, 6008
 watermelons 1028
 Welsh onions 9449

alcohols

carobs 10821
Nigella sativa 9855

alkaloids, *Opuntia ficus-indica* 9921amino acids, *Phaseolus vulgaris* 4159

ascorbic acid

aubergines 3251
Opuntia ficus-indica 9921
 pawpaws 927

bacteria

Capsicum 9558
 horticultural crops 3155
 okras 5070, 9551
Rosa 5269
 tomatoes 1437

bactericides, cabbages 4999

bract removal, lawns and turf 3442

clay, *Moringa oleifera* 9625cobalt, *Phaseolus vulgaris* 4159

cold

Chinese cabbages 4087
 cucumbers 1352
 olives 4547
Panax quinquefolius 10794

coumarins, *Opuntia ficus-indica* 9921

disodium hydrogen phosphate,

pawpaws 927

drying, *Maytenus ilicifolia* 8036farmyard manure, *Moringa oleifera*

9625

fermentation

cucumbers 3191

tomatoes 3191

fulvic acids, tomatoes 9574

fungi, cabbages 4999

fungicides

aubergines 10534
Benincasa hispida 9499
 cabbages 4999
Capsicum 470
Hevea 10991
Luffa acutangula 9499
Moringa oleifera 9625
 onions 4044
Papaver somniferum 10796
Phaseolus coccineus 1380
Phaseolus vulgaris 8590
 spinach 4056
 tomatoes 8590
Zingiber officinale 1669

heat

Capsicum 470
Rosa 5269

herbicides, onions 10388

horticultural crops, reviews 4681

hot water treatment

cabbages 4999
 carobs 10821
Citrus 5364
Psoralea corylifolia 2564

humic acids, tomatoes 9574

hydration 8653

hydrogen peroxide, spinach 10398

Seeds cont.

treatment cont.

hydrostatic pressure

Psophocarpus tetragonolobus
 5984

vegetables 9416

industrial wastes, okras 464

insecticides

mangoes 4625
 okras 6891
 peas 442

lasers, tomatoes 9575

light

Berberis buxifolia 760
 cucumbers 5891
 vegetables 7643

magnetic field, onions 6749

matriconditioning

broccoli 7700
Echinacea purpurea 5183
 lawns and turf 7909

molybdenum, *Phaseolus vulgaris*

4159

nematicides, mangoes 4625

oils, *Nigella sativa* 9855

osmotic pretreatment 8653

broccoli 4086, 7700, 10425
Capsicum 7772, 9557
 carrots 5132

cauliflowers 1344

celery 2329

Chinese cabbages 3136

cucumbers 1352, 7730

Echinacea purpurea 5183

Lagenaria siceraria 10462

lawns and turf 7909

lettuces 4986, 10408

melons 5483, 7312, 8142

onions 1284

tomatoes 2288-2289, 3257, 6007-

6008, 8651-8652

watermelons 1809-1810, 10932

oxygen

Lagenaria siceraria 10462
 melons 5483

onions 1284

pelleting

Benincasa hispida 9499

Luffa acutangula 9499

pesticides, onions 9447

phytoplankton, okras 2267

plant extracts

Cucurbita pepo 10490
Phaseolus vulgaris 10490

plant growth regulators

Asteraceae 594, 1530
 aubergines 8640, 9568

Cactaceae 1586

Calanthe discolor 1598

Catharanthus roseus 6215

Citrullus colocynthis 6279

Citrus 5364

Coriandrum sativum 9816

cucumbers 5910

Echinacea purpurea 5183

Eschscholzia californica 7004

jackfruits 7266

lawns and turf 3442

lettuces 3124

mangoes 7320, 7336

Matthiola incana 6114

Myrica rubra 5449

Nigella sativa 9855

Opuntia ficus-indica 9921

Paeonia suffruticosa 7117-7118

Panax pseudoginseng 4465

Panax quinquefolius 10794

sapodillas 10999

spinach 10398

tea 11002

tomatoes 8652

Trigonella foenum-graecum 5324

Uniola paniculata 4318

potassium nitrate

carobs 10821
Catharanthus roseus 6215

Lagenaria siceraria 10462

pawpaws 927

tomatoes 10543

potassium phosphate

Capsicum 10524

Seeds cont.

treatment cont.

potassium phosphate cont.

lettuces 10408

pyridoxine, aubergines 3251

radionuclides, radishes 392

scarification

Asteraceae 1530

Cactaceae 1586

carobs 10821

Corchorus tridens 4261

Coriandrum sativum 9816

Lupinus harvardii 5187

Opuntia ficus-indica 9921

Pachycereus pringlei 8830

Persoonia sericea 1653

Psoralea corylifolia 2564

Rubus chamaemorus 6661

Rubus ursinus 6661

Sicyos angulatus 3165

strawberries 241

smoke, lettuces 1306

soaking, *Psoralea corylifolia* 2564

sodium carbonate, pawpaws 927

sodium chloride, pawpaws 927

sodium hypochlorite

Brassica 10448

Cactaceae 1586

Capsicum 470

spinach 10398

stratification

apples 4737, 9176

apricots 10172

Aralia cordata 1495

Astragalus membranaceus 3537

Astragalus mongholicus 3537

Berberis buxifolia 760

Dodecatheon meadia 3412

Echinacea 8919

Opuntia ficus-indica 9921

Paeonia suffruticosa 7117-7118

Panax pseudoginseng 4465

Rosa 4899, 5269

temperature, *Leucospermum* 3508

testa removal

Echinacea 8919

Paeonia suffruticosa 7118

tomatoes 10543

thiamin, aubergines 3251

thiourea, *Lagenaria siceraria* 10462

trace elements, tea 11002

ultraviolet radiation, *Capsicum* 470vanadate, *Phaseolus vulgaris* 5045vitamin B complex, *Phaseolus vul-*

garis 4159

water

Citrus 5364

Coriandrum sativum 9816

Nigella sativa 9855

viability

assessment

Agave potatorum 5227

Petroselinum crispum 6267

biochemistry, *Nelumbo nucifera* 672

drying

Digitalis purpurea 4459

mangoes 921

maturity, *Digitalis purpurea* 4459

moisture content

mangoes 921

tea 11001

plants, reviews 1027

reproduction, *Camellia japonica* 7076

seed treatment, melons 8142

storage

mangoes 7320

melons 8142

tests

Coriandrum sativum 6246

Cuminum cyminum 6246

Epipactis helleborine 3461

fennel 6246

Salvia farinacea 10633

Salvia splendens 10633

vigour

assessment

Chinese cabbages 9470

radishes 9470

biochemistry, cauliflowers 1344

cryopreservation

kohlrabi 10424

Seeds cont.

vigour cont.

cryopreservation cont.

radishes 10424

cultivars

Capsicum 9558

peas 8603-8604

moisture content

kohlrabi 10424

radishes 10424

seed treatment

Capsicum 9558*Cosmos bipinnatus* 1028*Cucurbita pepo* 9500

melons 8142

onions 1028

watermelons 1028

storage

Cucurbita pepo 9500

melons 8142

tests

Brassica 4085

cucumbers 5088

onions 10377

tomatoes 5088

Seemannia sylvatica (see *Gloxinia sylvatica*)*Seemannia latifolia* (see *Gloxinia sylvatica*)*Seiulus finlandicus*

control

of Acari

cherries 1993

plums 1993

Selenaspis articulatus, oranges 2602*Selenicereus megalanthus*, taxonomy, morphology 1771**Selenium**

composition

persimmons 4561

Rubus 1196, 9348

determination, tea 9102

fertilizers, tea 6455

plant nutrition

Brassica campestris 10445*Brassica chinensis* 10445

toxicity, lettuces 4076

uptake

garlic 4025

vegetables 9429

Selenothrips rubrocinctus, cocoa 8132*Sempervivum*, taxonomy, chemotaxonomy 4359*Senecio*, plant, development, growing media 51**Senecio hybridus**

flowers

development

photoperiod 3420

temperature 3420

Senecio inaequidens, as weeds, grapes 7613**Senecio vulgaris**

as weeds

Asparagus 5990, 7763

broccoli 1326

Senegal

ethnobotany 27

onions

cultivars 5815

production 5800

wild plants, edible species 27

Senescence

anatomy, mushrooms 3343

biochemistry

broccoli 3152

carnations 7863

Chinese cabbages 1341

Clivia miniata 656

cucumbers 1368

fruit crops, reviews 10078

Galanthus nivalis 8792

horticultural crops 6518

mushrooms 3334

Rhoeo spathacea 656

roses 3501

vegetables, reviews 10078

physiology

apples 3795

broccoli 7712

carnations 1535-1536, 4283

Cymbidium 5255*Dendrobium* 6175

fruit crops, reviews 10078

Senescence cont.

physiology cont.

Gladiolus 637*Hemerocallis* 4304

horticultural crops, reviews 3731

melons 4613, 5491

Mirabilis jalapa 4311

mushrooms 8723

Ocimum basilicum 6257*Petroselinum crispum* 6257*Petunia* 609*Pharbitis nil* 7868*Phaseolus vulgaris* 2237

radishes 9495

roses 4283, 6207

Salvia officinalis 6257*Sandersonia aurantiaca* 4338

tomatoes 2317

Tropaeolum majus 623

tulips 3436

vegetables, reviews 10078

watercress 6257

plant growth regulators

Alstroemeria 5205

carnations 6090

Phalaenopsis 7063

pollution, peas 9540

storage, broccoli 8556

water stress, peas 1394

Sepiolite, utilization, growing media,*Cupressus arizonica* 3478**Septoria lavandulae**, *Lavandula angustifolia*

7114

Serapias parviflora, *in vitro* culture, propa-

gation, techniques 7055

Serenoa repens, wild plants, utilization 7154**Serratia marcescens**

control

of *Fusarium oxysporum*, cucumbers

8576

of *Fusarium oxysporum* f.sp.*cucumerinum*, cucumbers 8576**Setaria faberi**

as weeds

carrots 6044

onions 6044

ornamental woody plants 7071

tomatoes 500

Setaria macrostachya, dried flowers, produc-

tion 9654

Setaria pumila, as weeds, apples 1075**Setaria viridis**, as weeds, broccoli 1326**Setcreasea pallida**, flowers, histology 7051**Sewage effluent**

utilization

irrigation

bananas 9007

nectarines 4832

Sewage sludge

utilization

fertilizers

Hibiscus 9428*Impatiens* 4316*Lactuca indica* 2161

lawns and turf 9722

lettuces 4941

okras 466

ornamental woody plants 9722

Petunia 2161

spinach 4941

Tagetes erecta 4316

tomatoes 3276

Trigonella foenum-graecum 4941

vegetables 2113, 9428

growing media

ornamental woody plants 6185

Swietenia mahagoni 5296

tomatoes 9592-9593

soil amendments

cabbages 10437

lettuces 10418

spinach beets 351, 3122

vegetables 325, 1330, 9427

Shade (see also Light)

measurement, ornamental woody plants

2470

responses

Aloe arborescens 10774*Aloe barbadensis* 10774*Aloe saponaria* 10774*Amaranthus tricolor* 8715**Shade cont.**

responses cont.

Aruncus dioicus 10584*Aspidistra elatior* 4363*Aster scaber* 2108

bananas 8120

Brassica chinensis 6784*Bulbophyllum nilgherrense* 7932*Capsicum* 8623

Chinese cabbages 6786, 10432

citrumelos 4496

coffee 3659, 5477-5478, 7302, 8136-

8137, 8141, 9956

cucumbers 3190

Cyclamen persicum 3425*Enicostema litorale* 6281

globe artichokes 7681

grapes 1253, 2090, 3991, 5764, 6696,

9396

ground cover plants 5160

Hevea 2745-2746*Ipomoea tricolor* 5173

kiwifruits 2039

lawns and turf 1579, 4344

reviews 4343

lettuces 363, 10415

Ligularia fischeri 2108*Lilium* 3434*Malva verticillata* 2559

mandarins 4496

melons 9963

olives 8986

ornamental ferns 5160

pawpaws 6437

peaches 9286, 9297

Phytolacca dodecandra 9843*Pimpinella brachycarpa* 3321

pummelos 2593

raspberries 7570

Rhododendron obtusum 1630, 10722*Solidago virgaurea* 2108

strawberries 242, 1205, 2061-2062,

3946, 5735

tea 7360

tomatoes 2303, 3305, 7796, 9580

Vanda spatulata 7932

vegetables, reviews 1273

Vinca minor 692*Wedelia robusta* 692*Zingiber officinale* 8890**Shading**

materials

Chinese cabbages 10432

kiwifruits 211

lettuces 10415

Rubus occidentalis 2045

responses

apples 8315

coffee 10926

techniques

coffee 2692

kiwifruits 219

Shale, utilization, soil amendments, radishes

9491

Shallots

altitude, responses 5784

bulbs, quality, altitude 5784

cultivars, assessment, Belgium 1292

disease control, Europe 10366

fertilizers 5832

manures 5821

pest control, Europe 10366

plant nutrition 5832

production

Indonesia 5779, 5830

Papua New Guinea 5811

Sri Lanka 5806

Taiwan 5797

Thailand 5807

production possibilities, Malaysia 5809

reports, Belgium 1888, 9127

research, Indonesia 5779

soil types 5784

storage, quality, cultural methods 5831

weed control 10366

Shelterbelts (see also Windbreaks)*Citrus* 7209

mangoes 1825

Shepherdia rotundifolia, *in vitro* culture,

propagation, micropropagation 10743

Sherardia, as weeds, olives 8097

Sherardia arvensis, as weeds, olives 7242

Shoots

- abscission, plant growth regulators, *Rhipsalidopsis gaertneri* 1594
- biochemistry
 - analysis, olives 10884
 - cultivars, grapes 4901
 - flowering
 - Perilla frutescens* 8038
 - Rudbeckia hirta* 7882
 - satsumas 3604
 - strawberries 4892
 - maturity, *Asparagus* 2265, 6880
 - seasonal variation
 - Ficus retusa* 9274
 - olives 10884
 - satsumas 10854
 - temperature
 - Asparagus* 5988
 - Pyrus pyrifolia* 8361
- colour, storage, *Asparagus* 459, 6884
- cracking, assessment, kohlrabi 388
- development
 - altitude, apples 3777
 - anatomy, *Aucuba japonica* 7101
 - assessment
 - cherries 163
 - Echeveria gibbiflora* 5237
 - Hevea* 5507, 10996
 - ornamental plants 5159
 - peaches 3874
 - walnuts 5692
 - biochemistry, cashews 7282
 - carbon dioxide
 - apples 84
 - lemons 2613
 - cultivars
 - apricots 9240
 - peaches 2004
 - raspberries 9346
 - walnuts 5689
 - cultural methods
 - apples 5603, 6558
 - satsumas 8962
 - tea 2758
 - fertilizers, passion fruits 8106
 - fruiting, peaches 2004
 - fungicides, tomatoes 10560
 - humidity, apples 103, 4761
 - irrigation
 - apples 6552
 - Chamaelium uncinatum* 2494
 - Lemaireocereus queretaroensis* 2666
 - tomatoes 7815
 - light
 - Phaseolus vulgaris* 2235
 - tomatoes 7815
 - models
 - broccoli 1339
 - poinsettias 9780
 - raspberries 9346
 - Vanilla planifolia* 2520
 - morphology, walnuts 5689
 - phenology, Cucurbitaceae 7424
 - photoperiod
 - Capsicum* 8686
 - radishes 5884
 - tomatoes 8686
 - physiology
 - roses, reviews 2487
 - tea 7360
 - plant growth regulators
 - apples 1072, 1953, 2878, 5603, 6558, 9190, 10118
 - Coreopsis grandiflora* 1555
 - Heuchera* 2395
 - mangoes 9975
 - olives 862
 - peaches 2949
 - pears 1162, 9190, 10118
 - peas 10504
 - Physostegia virginiana* 1555
 - Prunus* 7120
 - radishes 5884
 - Scabiosa* 2395
 - plant nutrition, spinach 3109
 - plant water relations, grapes 3985
 - pollination, apples 10135
 - propagation, sour oranges 10835

Shoots cont.

- development cont.
 - pruning
 - cherries 10191
 - grapes 268
 - mangoes 9975
 - roses 7096
 - tea 9092
 - rootstock scion relationships, apples 4741
 - salinity, figs 3826
 - seasons
 - Actinidia eriantha* 3913
 - Lemaireocereus queretaroensis* 2666
 - shade, *Pimpinella brachycarpa* 3321
 - soil temperature, apples 103, 4761
 - temperature
 - apples 6576, 10128
 - Asparagus* 5066
 - broccoli 1339
 - grapes 3985
 - lemons 2613
 - Pyrus pyrifolia* 8361
 - radishes 5884
 - water stress
 - Betula pendula* 8867
 - grapes 2096
 - wind, *Citrus* 5371
 - initiation
 - plant growth regulators, *Citrus latifolia* 10853
 - temperature, *Dendrobium* 8839
 - injuries
 - fertilizers, *Chamaecyparis lawsoniana* 2479
 - harvesting, *Asparagus* 3026
 - mechanical properties
 - assessment, tea 9100
 - handling, *Asparagus* 461
 - stress, tulips 1569
 - transport, *Asparagus* 461
 - quality
 - fertilizers, *Asparagus* 10513
 - forcing, *Asparagus* 5061
 - handling, *Asparagus* 461
 - storage, *Asparagus* 459, 6883, 10516
 - temperature, *Asparagus* 3224, 5989, 10514
 - transport, *Asparagus* 461
 - storage, physiology, garlic 1280
 - thinning
 - responses
 - grapes 6699
 - mandarins 4520

Sicyos angulatus

- seeds
 - germination, seed treatment 3165
 - treatment 3165

Sideritis scardica, taxonomy, morphology

8018

Sideritis syriaca, seeds, germination, physiology 9827

Sigmatostalix, taxonomy, nomenclature 7056

Silicon

- composition
 - edible fungi 1497
 - Osmunda japonica* 1497
- uptake
 - Cassia senna* 8027
 - Cleome droserifolia* 8027

Silt

- utilization
 - growing media, grapes 9381
 - propagation, *Ficus* 10686

Silver

- absorption, carnations 5167
- composition, edible fungi 563
- responses
 - Albizia julibrissin* 5277
 - apples 10158
 - cut flowers 9650
- uptake
 - lettuces 4072
 - mushrooms 1499

Silver thiosulfate

- responses
 - Antirrhinum* 6087
 - carnations 600, 1534, 4283, 5167, 6090, 9660
 - cut flowers 8742

Silver thiosulfate cont.

- responses cont.
 - Gerbera* 6097
 - Gladiolus* 637, 7892
 - Gypsophila* 9686
 - Lupinus hvardii* 616
 - mandarins 3609
 - Paeonia* 3419
 - roses 4283, 4406
 - Sandersonia aurantiaca* 4338
 - Thalictrum delavayi* 10635
 - tomatoes 1464
 - toxicity, *Thalictrum delavayi* 10635

Silybum marianum

- fertilizers
 - nitrogen 8042
 - potassium 8042
- in vitro culture
 - culture media 6290
 - propagation, protoplasts 6290
- planting, spacing 8042
- Simmondsia californica* (see *Simmondsia chinensis*)
- Simmondsia chinensis*
 - ecology
 - Mexico 4467
 - USA 4467
 - in vitro culture
 - metabolites, production 9863
 - propagation, micropropagation 9864
 - mycorrhizas 781
 - plant
 - development, sex 4467
 - morphology 4467
 - production, Israel, reviews 4468
 - production possibilities, Australia 4469, 9862
 - roots, biochemistry, salinity 10805
 - salinity, responses 10805
 - seeds, composition 7181

Sinapis, as weeds, olives 8097

Sinapis alba

- as green manures, peaches 3855
- as weeds
 - carrots 7834
 - olives 7242

Sinocalycanthus chinensis, ornamental value 6180

Sinoxylon sudanicum, dates 6346

Sisal (see Agave sisalana)

Sisymbrium officinale, as weeds, cabbages 9475

Sitona lineatus, peas 442

Sivaloke damnosus, tea 10015

Slovakia

- grapes, economics 10309
- Oenothera*, surveys 1687

Slovenia

- apples
 - economics 10115
 - production 10106
- essential oil plants
 - wild plants
 - conservation 5328
 - genetic resources 5328
- medicinal plants
 - wild plants
 - conservation 5328
 - genetic resources 5328
- olives, production 8093
- raspberries, cultivars 9344
- strawberries, cultivars 7580

Small fruits

- conferences 2801
- cultivars, characteristics, books 989
- cultural methods, books 6470
- disease control, USA 3907
- flowering, books 7389
- harvesting, equipment 6642
- pest control, USA 3907
- planting stock, production, Poland 1919
- pollination, books 7389
- roots, development, temperature 4716
- weed control 1035, 3907

Smyrniun perfoliatum

- roots
 - histology 6294
 - physiology 6294

Snow, injuries, apples 8254

Sobralia, taxonomy, nomenclature 7056

Sodium

- composition
 - bananas 9935
 - Hericium erinaceus* 1503
 - olives 3619
 - tomatoes 8675
- fertilizers, coconuts 9023
- metabolism
 - cultural methods, chrysanthemums 605
 - development, melons 5490
 - fertilizers, apples 1954
 - in vitro* culture, cucumbers 4129
 - irrigation
 - oranges 4499
 - tomatoes 3266
 - maturity, *Asparagus* 6880
 - nitrogen, *Capsicum* 8628
 - plant nutrition, tomatoes 10563
 - ripening, melons 5490
 - rootstock scion relationships, watermelons 9039
- salinity
 - Annona squamosa* 6372
 - apples 6560
 - Capsicum* 5998, 8628
 - figs 3826
 - grapes 8459
 - mangoes 7326
 - Mesembryanthemum crystallinum* 5244
 - olives 2650
 - onions 3092
 - peaches 3849, 3857
 - Phyllanthus emblica* 2779
 - tomatoes 513, 3266
 - Ziziphus rotundifolia* 11018
- seasonal variation
 - Asparagus* 3226
 - Protea* 741
- water stress, tomatoes 9603
- plant nutrition
 - broccoli 2182
 - carrots 6954
 - oranges 1723
 - tomatoes 3282, 5101
- responses, passion fruits 9914
- uptake
 - Acanthocereus colombianus* 7258
 - apples 106
 - Cucurbita pepo* 5019
 - Impatiens* 4307
 - olives 3621
 - Opuntia ficus-indica* 7258
 - peaches 5660
 - radishes 4124, 5010
 - tomatoes 10550

Soil amendments

- ash, vegetables 7647
- bark, lettuces 10418
- bentonite, spinach 1293
- chalk, tomatoes 8672
- charcoal, Welsh onions 3101
- chitin, tomatoes 3275
- coal, chrysanthemums 9664
- conifer needles, *Zingiber officinale* 10753
- crop residues, lettuces 9462
- dolomite
 - apples 2888
 - cherries 2888
 - Impatiens walleriana* 7876
 - plums 4856
- farmyard manure
 - broccoli 4940
 - cabbages 4940
 - Cuminum cyminum* 745
 - Cyamopsis tetragonoloba* 745
 - peaches 3855
 - Phaseolus vulgaris* 4940
 - spinach 347
 - strawberries 2065, 4889-4891
 - tomatoes 4940
 - Zingiber officinale* 7136
- grass clippings
 - ornamental plants 10610
 - tomatoes 10610
- gypsum
 - avocados 3571
 - mushrooms 2349
 - oranges 8948
- humates, tomatoes 9594

Soil amendments cont.

- hydrophilic polymers
 - lawns and turf 10669
 - raspberries 3007
- industrial wastes
 - oil palms 2726
 - onions 4959
 - Phaseolus vulgaris* 6845-6846
 - strawberries 2060
- leaf mould, *Trigonella foenum-graecum* 2566
- lime
 - avocados 3571
 - cabbages 5004
 - cauliflowers 383
 - Hevea* 9076
 - Macadamia integrifolia* 6353
 - plums 204
 - spinach 1293
 - tomatoes 509
 - Vaccinium corymbosum* 3009
 - vegetables 325, 2113, 7647, 9427
- limestone
 - apples 2888
 - cherries 2888
 - plums 4856
- mushroom compost
 - broccoli 4940
 - cabbages 4940
 - peas 7757
 - Phaseolus vulgaris* 4940
 - tomatoes 4940
- organic matter, bananas 9936
- peat
 - carrots 361
 - chrysanthemums 3392
 - lettuces 361
 - Vaccinium* 4880
- plant extracts, *Tradescantia albiflora* 7916
- plant residues
 - lettuces 2160
 - ornamental plants 10610
 - Piper nigrum* 9821
 - radishes 6800
 - sour oranges 9881
 - tomatoes 10610
 - vegetables 8497
 - Zingiber officinale* 10753
- poultry manure
 - cabbages 380
 - tomatoes 7792
- refuse compost
 - bananas 5458
 - Capsicum* 8643
 - carrots 10468
 - cucumbers 10468
 - guavas 6425
 - leeks 2145
 - pawpaws 5503-5504
 - spinach 2145
 - tomatoes 509, 8643
 - Vaccinium* 4880
- sawdust
 - onions 10381
 - sour oranges 9881
 - Vaccinium corymbosum* 7575
 - Zingiber officinale* 10753
- sewage sludge
 - cabbages 10437
 - Hibiscus* 9428
 - lettuces 10418
 - spinach beets 351, 3122
 - vegetables 325, 1330, 9427-9428
- shale, radishes 9491
- straw, spinach 1293
- Soil compaction**
 - responses
 - Cymbopogon winterianus* 7141
 - oranges 4500
 - Prunus serotina* 9810
 - vegetables 2112
- Soil conditioners**
 - responses
 - cucumbers 10463
 - Eutrema wasabi* 3159
 - mangoes 6429
 - tomatoes 3283
- Soil fumigants**
 - chloropicrin, responses, peaches 3855
 - methyl bromide, responses, peaches 3855

Soil fumigation

- chloropicrin
 - Capsicum* 7774
 - strawberries 5732
- dazomet, chicory 357
- metam
 - Capsicum* 7774
 - strawberries 5722, 5725
- methyl bromide
 - apples 97, 1079
 - Capsicum* 7774
 - grapes 276
 - strawberries 5722, 5725, 5732
 - tomatoes 1455
- Soil heating**, equipment, tomatoes 9582
- Soil management**
 - responses
 - apples 2876
 - avocados 2582
 - mangoes 9980
 - peaches 2001, 9288
 - systems
 - almonds 2851
 - apples 2869, 2879-2880, 3778, 4764, 4767, 6555, 7466-7467, 8264, 8267, 10110, 10113
 - broccoli 9476
 - cabbages 5865
 - Citrus* 6321
 - coffee 6401
 - grapes 267, 3034, 3967-3968, 4911, 7612, 8457-8458, 9397
 - horticultural crops 5563
 - mandarins 6323
 - olives 8096
 - peaches 9287
 - pears 7467
 - temperate fruits 1058, 5585
 - Vaccinium ashei* 3926
- Soil pH**
 - responses
 - Actinidia eriantha* 10268
 - apples 105, 2867, 8271
 - carrots 8702
 - cherries 3819
 - chrysanthemums 3392
 - Clematis vitalba* 5283
 - kiwifruits 10268
 - lemons 8949
 - lettuces 9462
 - oranges 8949
 - pears 8363
 - Piper nigrum* 9820
 - plums 8363
 - temperate fruits 7443
 - Vaccinium* 1200
 - Vaccinium ashei* 2050
 - vegetables 9427
 - soil amendments
 - avocados 3571
 - pineapples 3682
- Soil pollution** (see Pollution)
- Soil salinity** (see also Salinity)
 - responses
 - endives 3077
 - fennel 3077
 - lettuces 3077
- Soil sickness**
 - Asparagus* 3225, 10511
 - peaches 3855
 - strawberries 1207
- Soil solarization**
 - apples 2894
 - Capsicum* 476, 5077
 - carrots 1267
 - Cuminum cyminum* 745
 - Cyamopsis tetragonoloba* 745
 - fruit crops 1033
 - garlic 3084
 - globe artichokes 1300
 - horticultural crops 1047
 - lettuces 1267, 7686
 - onions 1267
 - strawberries 10294
 - tomatoes 518, 1451, 1455, 3287
 - vegetables 4945
 - watermelons 9966
- Soil sterilization**, responses, *Asparagus* 3225
- Soil structure**
 - responses
 - grapes 273, 3041

Soil structure *cont.*

responses *cont.*
temperate fruits 3743

Soil temperature

responses
apples 103, 4761
Asparagus 10514
broccoli 4086
Capsicum 3239, 3243
grapes 3041
satsumas 5391
tomatoes 9582

Soil types

coffee 5480
Datura metel 9842

Soil water (see also Waterlogging)

drainage, *Piper betle* 7189
responses
apples 2862, 2907
cherries 8332
cucumbers 5015
Cymbidium sinense 1601
grapes 3054, 7614
kiwifruits 10266
oranges 6329
pummelos 1741
vegetables 8495, 9421

Soilless culture

conferences 2797, 8186
cultivars

cucumbers 7727
leeks 5789
cultural methods
aubergines 8641
chrysanthemums 9665
Dendrobium nanum 2439
Diplocentrum recurvum 2439
Eria pauciflora 2439
grapes 1235
lettuces 4990-4991
Perilla frutescens 755
Proteaceae 8846
strawberries 8427
tomatoes 3305, 8665, 9589

disease control

aubergines 10528
Campanula carpatia 7872
Capsicum 10528
cucumbers 10472
Gerbera 7872
horticultural crops 7419
lettuces 1314, 4990, 8530
pot plants 586
tomatoes 2305, 3288, 6930, 7810
Zinnia elegans 10528

economics, melons 9042

equipment, cut flowers 4276

fertilizers

strawberries 5731
Tagetes 6120

growing media

Anthurium 687
bedding plants 8743
carnations 3383, 9657
Catharanthus roseus 3542
Cotoneaster dammeri 8873
cucumbers 3171-3174, 8566-8567
Cupressus sempervirens 9772
Forsythia ovata × *Forsythia europaea* 8873
Gerbera 8664, 8752-8753, 8755, 9667, 10622
Gypsophila 613
Hebe 3505
horticultural crops 8210, 9137, 9148-9149
lawns and turf 5210-5211
lettuces 9459
melons 908
onions 3094
peas 1391
Ravena rivularis 687
strawberries 246, 10296
tomatoes 492, 508, 2302, 5090, 6923, 7804, 8566, 8664, 8666-8667, 9460, 9590, 9592, 9616

irrigation

Cyclamen 3426
horticultural crops 3273
tomatoes 3272, 3274

Soilless culture *cont.*

nutrient solutions

composition

Brassicaceae 7703
Catharanthus roseus 3542
chicory 4982
Chinese cabbages 6786
Chrysanthemum coronarium 3074
cucumbers 9509, 10472
culinary herbs 751
Eustoma grandiflorum 3413
greenhouse crops 8209
Gypsophila 613
lawns and turf 3444
leeks 5790
lettuces 3074, 4995-4996, 9465, 10416, 10419
Oenanthe javanica 3074
onions 3094
peas 1391
Phalaenopsis 7940
radishes 4124, 5010
roses 3497
strawberries 3019, 4888, 6675
tomatoes 491, 3277-3278, 4221, 4224, 6015
cooling, horticultural crops 38
electrical conductivity
lettuces 10416
melons 907
roses 8858
strawberries 6675
tomatoes 2304, 3307, 4228

pH

Capsicum 2279, 5997
carnations 3384
Chrysanthemum coronarium 3074
culinary herbs 751
kohlrabi 378
lettuces 3074, 10416
Oenanthe javanica 3074
radishes 4124
strawberries 4888, 6675
tomatoes 10544
Vaccinium 3008

recycling, horticultural crops 7410

salinity

aubergines 400
chrysanthemums 3393
cucumbers 3284
melons 3666
onions 1289
roses 7964, 8860
tomatoes 495, 534, 3282, 3284, 6934, 10551

sterilizing, horticultural crops 1034

temperature

Brassica chinensis 6787
Capsicum 5997
chicory 4982
Chrysanthemum coronarium 3074
cucumbers 4131
Eustoma grandiflorum 3414
horticultural crops 8223
lettuces 3074, 4995-4996, 6787, 10417
melons 907
Oenanthe javanica 3074
spinach 346
tomatoes 507
vegetables 1328, 4012, 5772
treatment, tomatoes 9588

pest control

Rhododendron simsii 2481
Schefflera venulosa 2481

plant nutrition

apples 1957
aubergines 6905
Basella alba 4260
Brassica 1332
Brassica campestris 3110
broccoli 2182
Chinese cabbages 4100
chrysanthemums 5171, 10619
cucumbers 4139, 6816
Cupressus arizonica 1621
cut flowers 4276
Cyclamen 3426
Cymbidium sinense 1603-1604, 5256
Fuchsia coccinea 1546
Hibiscus rosa-sinensis 1648

Soilless culture *cont.*plant nutrition *cont.*

horticultural crops 2814, 3273
lettuces 364-365, 2165, 3129, 4997, 8532
peas 4139, 10502
Petunia 1546
roses 3498, 8861
spinach 2165, 3110, 4055
strawberries 5729, 10296
Tagetes patula 9692
Thuja plicata 3477
tomatoes 492, 511, 1473, 4222, 4224, 6754, 6928, 7805, 8683, 9589, 10491
Vaccinium macrocarpon 7574
Valerianella locusta 3129
vegetables 5772
plant water relations
roses 8861
tomatoes 8683, 9226, 9616
planting, spacing, Welsh onions 4966
responses
lettuces 3129
marrows 3175
Phaseolus coccineus 3175
Valerianella locusta 3129

systems

aeroponics

chrysanthemums 602, 1538
Vaccinium macrocarpon 7574
assessment
Eustoma grandiflorum 3414
Gerbera 3395
greenhouse crops 2821
horticultural crops 3273, 4683, 5564-5566
melons 9042
tomatoes 3270, 3273, 4217, 6921

hydroponics

Angelica archangelica 1672
Brassica campestris 10445
Brassica chinensis 10445
chrysanthemums 3391, 3393
cucumbers 4135
horticultural crops 6922
leeks 5789-5790
lettuces 10416-10417
melons 907, 4610, 5485
spinach 8517
tomatoes 1447, 2301, 3271, 3286, 4218, 4253, 10491, 10544
Valerianella locusta 3328
vegetables 3073, 5774, 6736-6737

nutrient film techniques

chrysanthemums 602, 1538
Cissus rhombifolia 3503
cucumbers 3284
horticultural crops 1032, 2819
lettuces 374-375, 7689, 10417
melons 907, 9037
onions 7669
tomatoes 507, 3280, 3284, 4217, 6921, 8681-8682, 9616
Welsh onions 4966
recycling, tomatoes 7802
water relations, lettuce 3127

Solanum (see also Aubergines)

Solanum aculeatissimum, as rootstocks, tomatoes 8656

Solanum aethiopicum, weed control 2319

Solanum citrullifolium, characteristics 8780

Solanum dubium, fruits, composition 9867

Solanum integrifolium, as rootstocks, aubergines 3247

Solanum integrifolium × *aubergines*, as rootstocks, aubergines 3247, 8641

Solanum mammosum

as rootstocks, tomatoes 8656
in vitro culture, callus, growth 10799

Solanum muricatum

disorders, chilling injury 4565
storage

physiology 4565
temperature 4565

Solanum nigrum

as weeds

cabbages 9475
Capsicum 7799
onions 9442
tomatoes 3264, 7799

***Solanum nigrum* cont.**

- pollution
 - exhaust gases 1029
 - peroxyacetyl nitrate 1029
 - seeds, development, ultrastructure 1692
- Solanum physalis* folium**, as weeds, *Capsicum* 7773

Solanum pseudocapsicum

- chloroplasts, development, physiology 10744
- fruits, ripening, physiology 10744
- in vitro* culture, propagation, micropropagation 4429

Solanum ptycanthum, as weeds, tomatoes 499***Solanum quitoense***, production possibilities, Ecuador 9869***Solanum sarrachoides***, as weeds, *Asparagus* 5990***Solanum seaforthianum***, seeds, development, models 5050***Solanum sisymbriifolium***, as rootstocks, tomatoes 5092, 8655***Solanum torvum***

- as rootstocks
 - aubergines 8641
 - tomatoes 5092, 8655

Solanum toxicarium, as rootstocks, tomatoes 5092, 8655***Solanum viarum***, *in vitro* culture, propagation, micropropagation 10800***Solanum violaceum***, seeds, development, histology 7785**Solar radiation**

- measurement, coconuts 897
- utilization
 - drying
 - apricots 10182
 - persimmons 870, 3628
 - Pleuratus florida* 579
- energy sources, greenhouses 494, 2296

Solenostemon rotundifolius, *in vitro* culture, propagation, micropropagation 8721***Solidago virgaurea***

- cultural methods, Korea Republic 2108
- planting, planting date 2175
- seedlings, planting, age 2175
- shade, responses 2108
- wild plants, edible species 3069

Solidaster

- disease control
 - Phytophthora* 10067
 - Pythium* 10067

Solieria chordalis, *in vitro* culture, growth, assessment 1707***Soliva pterosperma***, as weeds, lawns and turf 6149***Sonchus arvensis***, as weeds, apples 8269***Sonchus oleraceus***

- as weeds
 - cabbages 9475
 - lawns and turf 8802

Sophora microphylla

- plant, habit, plant growth regulators 8884
- plant growth regulators, cytokinins, composition 8884

Sophora prostrata

- plant, habit, plant growth regulators 8884
- plant growth regulators, cytokinins, composition 8884

Sophora tetraptera, plant growth regulators, cytokinins, composition 8884***Sophronitella***, taxonomy, nomenclature 998***Sophronitis***, taxonomy, nomenclature 998***Sophronitis coccinea***, pollination, pollinators, Trochilidae 10714***Sorbaronia alpina* × *Sorbus aucuparia***, cuttings, sources, juvenility 8885**Sorbitol**

- metabolism, fruiting, apples 1973
- responses, mushrooms 9630

Sorbus, cuttings, sources, juvenility 8885***Sorbus aria***, cultivars, characteristics, USA 9768***Sorbus aucuparia***

- grafting, scions, assessment 5259
- roots, development, plant growth regulation 7073

Sorbus aucuparia* × *Aronia melanocarpa, cuttings, sources, juvenility 8885***Sorbus caloneura***, ornamental value 4430***Sorbus melanocarpa*** (see *Aronia melanocarpa*)***Sorbus torminalis***, shoots, vascular system 7122***Sorbus yuana***, ornamental value 4430***Sorghum halepense***, as weeds, pears 2011**Sorting**

- computer vision, oranges 2625
- economics, cherries 166
- equipment
 - dates 1744
 - fruit crops 8229
 - vegetables 8229
- mechanization, mandarins 2622
- techniques
 - apples 3806, 6589, 7511, 9305
 - Citrus* 5407
 - fruit crops 4709, 5581
 - melons 6423, 7315
 - oranges 8966
 - pistachios 10247
 - tomatoes 5581
 - vegetables 4709
 - walnuts 10259

Sour oranges

- as rootstocks
 - Citrus* 9878
 - clementines 10823
 - grapefruits 8056
 - lemons 6313, 8946
 - limes 10826, 10828
 - oranges 1715, 3584, 4503, 5365, 5382, 6314
- disorders, chlorosis 3589
- ethnobotany 819
- fertilizers
 - nitrogen 4504
 - zinc 8947
- fruits, quality, assessment 10868
- in vitro* culture
 - explants, sources 10835
 - propagation, responses 10835
- irrigation, water, salinity 7201
- leaves, physiology 9154
- mycorrhizas 7201, 9881
- pest control, *Tylenchulus semipenetrans* 1729
- plant, development, assessment 10827
- plant growth regulators, paclobutrazol, responses 5366
- plant nutrition
 - iron 3589
 - nitrogen 4504
 - rubidium 5382
 - strontium 5382
- pollen, viability, cultivars 7213
- seeds, treatment 5364
- shoots, histology 10828
- soil amendments 9881
- stomata, frequency 10828

South Africa

- apricots
 - cultivars 9231
 - production 9231
- avocados
 - cultivars 786, 788, 3563
 - economics 3561
 - production 3561
 - research 784-785
 - rootstocks 786, 788, 3564
- bananas, cultivars 9928
- Carica pentagona*, production possibilities 4566
- Citrus*, pest control 3590
- edible fungi, production 2336
- Litchi*, production 2632
- mandarins, cultivars 5362
- mangoes
 - plant nutrition, surveys 10953
 - research 10971
- nectarines, cultivars 6612
- Opuntia*, wild plants, utilization 9920
- Opuntia ficus-indica*, cultural methods 2664
- oranges, cultivars 6310-6312
- peaches, cultivars 6612
- pecans, cultivars 2018
- Pleuratus*, production 3365
- plums, cultivars 7547

South Africa cont.

- subtropical crops, production possibilities 2578
- tropical crops, production possibilities 2578

South America, mushrooms, production 2335**South East Asia**, plants, species, books 7386**Southern Africa**, *Uapaca kirkiana*, production possibilities 11028**Soyabeans**

- planting, site preparation 9421
- production possibilities, Taiwan 9415

Spacing

- Agave* 7150
- Angelica archangelica* 8021
- apples 92-93, 1946, 2866, 3768, 3773-3774, 4724, 6543, 7462-7463, 7470, 9183, 10101, 10104-10107
- Asparagus* 5061
- Aster amellus* 9678
- Atropa belladonna* 10776
- aubergines 8641, 8644
- bananas 882, 1782-1783
- beetroots 4053
- Boehmeria nivea* 2571
- Brassica* 10426
- Brassica campestris* 4110
- broccoli 9472
- Brussels sprouts 4090
- cabbages 3134, 8551, 10443
- Calendula officinalis* 9681
- Capsicum* 3244, 5993, 6899
- carrots 5135, 7840, 10577
- cashews 8131
- cherries 5637, 8330
- cocoa 4591
- coffee 5477-5478, 10925
- Coriandrum sativum* 10757
- cucumbers 10466
- Cucurbita moschata* 3169
- Cyperus esculentus* 6962
- Dracocephalum moldavica* 8029
- Eucommia isiforme* 10808
- garlic 330, 332, 5783, 6744
- Gladiolus* 6124
- Glossocardia bosvallia* 5339
- grapefruits 6314
- grapes 1236, 6703, 10319
- guavas 9048
- Hevea* 2743, 9071-9072
- Jasminum sambac* 717
- kiwifruits 224
- Lavandula angustifolia* 7143
- lawns and turf 10665
- melons 906, 1818
- Metroxylon* 974
- Momordica dioica* 4132
- nectarines 3845
- okras 2268, 2272, 3228, 6887-6888, 9554
- olives 2640
- onions 4039, 5817-5818, 6750, 7668, 8508, 10379-10380
- oranges 821, 6314
- ornamental woody plants 6236
- pawpaws 5502, 10986
- pears 186, 10231
- Perilla frutescens* 755
- Petroselinum crispum* 747
- Phaseolus vulgaris* 1375, 6844, 7750
- pineapples 2734-2735
- Polianthes tuberosa* 663
- roses 7094
- Silybum marianum* 8042
- stone fruits 9161
- strawberries 1205, 5724, 5735, 7584, 8426
- tea 6453
- tomatoes 489, 3259-3260, 3268, 3310, 5084
- tulips 5201
- Vaccinium corymbosum* 3925
- Valeriana officinalis* 3531
- Vigna unguiculata* 4178, 6876
- walnuts 2035
- watermelons 906
- Welsh onions 4966
- Withania somnifera* 5346
- Ziziphus mauritiana* 11015

Spain

- almonds, marketing 74
- chestnuts
 - cultivars 6604-6605
 - production 10196
- Citrus*, economics 5361
- garlic, production 5801
- grapes, cultivars 10312
- greenhouse crops, pest control 2116
- Lilium*, cultivars 7017
- olives, cultivars 2642, 6357
- onions, production 5801
- plums, rootstocks 5686

Spartium junceum, allelopathy 8211

Spathiphyllum

- in vitro* culture, propagation, micropropagation 689
- plant growth regulators, thidiazuron, responses 7925
- pot plants, production, cultural methods 5219, 7925
- roots, development, physiology 689

Spathiphyllum floribundum

- disease control, *Sphaerobolus* 6164
- in vitro* culture
 - abnormal development 4369
 - culture media 6163
 - organogenesis 690

Spathiphyllum patinii, flowers, development, plant growth regulators 1596

Spathiphyllum wallisii, plant, composition 7052

Spathoglottis plicata, roots, anatomy 4376

Spergula arvensis

- as weeds
 - Asparagus* 7763
 - cabbages 9475
 - garlic 6746
 - vegetables 320

Sphaerobolus

- Neoregelia* 6164
- Spathiphyllum floribundum* 6164

Sphaerolecanium prunastri, peaches 1150

Sphaerotheca fuliginea

- cucumbers 1358, 1360, 3178, 4126, 5899-5900, 6819, 7727, 7736, 8573
- strawberries 7582

Sphaerotheca macularis, strawberries 4882, 7581, 9357

Sphaerotheca macularis f.sp. *fragariae*, strawberries 2056

Sphaerotheca mors-uvae

- black currants 8402
- gooseberries 4873

Sphaerotheca pannosa

- nectarines 1046
- peaches 3864, 7447
- stone fruits 9163

Sphaerotheca pannosa var. *rosae*, roses 726, 5272, 5274, 7093

Sphagnum, utilization, growing media, *Rhododendron* 6191

Sphecius speciosus, lawns and turf 2426

Spice plants

- bibliographies 2518
- books 1859, 2791, 10030
- conferences 1004, 4668
- organic culture 6242
- pest control, Nematoda, reviews 7986
- pollution, heavy metals 9815
- production
 - Germany 8887
 - history 6530
 - India 6491
- reports, Malawi 10059

Spices, bibliographies 7130, 7985

Spilocaea oleaginea, olives 4549

Spinach

- chloroplasts
 - biochemistry 1297, 3111-3112, 3114, 4971, 5238, 6770, 7679-7680, 9868, 10402
 - composition 6740
 - physiology, plant growth regulators 5977
- cropping systems, rotations 10521
- disease control
 - Albugo occidentalis* 2147
 - Fusarium* 5838
 - Pythium* 5838
 - Rhizoctonia* 5838

Spinach cont.

- disease control cont.
 - Rhizoctonia solani* 4056
- disorders, chlorosis 2147
- fertilizers
 - copper 4691
 - iron 1294
 - magnesium 1294
 - manganese 6738
 - nitrogen 1294-1295, 4091, 6763, 8498, 8518, 10362, 10521
 - phosphorus 1294, 4941, 6763, 9493, 10362
 - potassium 1294, 10362
 - zinc 4691
- growing media, pH 6801
- herbicides
 - persistence 8513
 - residues 3108
 - tolerance 3071
- in vitro* culture
 - propagation, micropropagation 3106
 - protoplasts 10399
 - responses, sugars 8514
 - somatic embryogenesis 4969, 8514
- insecticides, residues 8519
- irrigation
 - responses 4091
 - systems 4092
 - water, sources 5773
- leaves
 - biochemistry 348-349, 1298, 2148, 2150-2151, 3113-3119, 4059-4060, 4972, 4974-4975, 4977, 5841, 8520, 8522, 8611, 10403
 - light 8501
 - models 5840
 - photoperiod 4973
 - salinity 4973
 - composition 2118, 4062, 6764, 6772, 7652, 8523, 9454, 10404
 - cytology 10404
 - development, fertilizers 1295
 - injuries, physiology 1263
 - movement, assessment 4057
 - physiology 9673
 - quality
 - cultural methods 8517
 - fertilizers 8518
 - manures 4941
 - mitochondria, biochemistry 1299
 - nutrients, uptake, assessment 1294
 - nutritive value 7653
 - parasitic plants, *Orobanche aegyptiaca* 3120
 - photosynthesis
 - assessment 6765
 - biochemistry 4970, 4972, 4976, 7677, 8520, 10400-10401
 - carbon dioxide 10401
 - light 3733, 5576
 - photoinhibition 708, 6864, 7678
 - temperature 3733
- plant
 - biochemistry 350, 1296, 2149, 4978, 6767-6769
 - composition 1482, 4061, 6767, 8519
- plant growth regulators
 - fusicoccin, physiology 6766
 - reviews 9426
- plant nutrition
 - calcium 3110, 4055
 - copper 2146
 - iron 2165
 - magnesium 9453
 - nitrogen 3109-3110
 - potassium 3110, 4055
 - sulfur 9453
- pollution
 - acid rain 1263, 8493, 9422
 - cadmium 1293, 8515
 - exhaust gases 1029, 4007
 - heavy metals 4007
 - ozone 2144
 - peroxyacetyl nitrate 1029
 - uranium 316
- protected cultivation
 - systems
 - greenhouses 8517
 - plastic film 7676
 - row covers 8516

Spinach cont.

- protected cultivation cont.
 - temperature 3107
- reports, Belgium 1888, 9127
- research
 - Netherlands 8201
 - space science 4058
- respiration, light 8521
- roots, development, plant nutrition 3109
- salinity, responses 4973
- seedlings, emergence, soil structure 1269
- seeds
 - biochemistry 6771
 - composition 1265
 - germination, seed treatment 10398
 - treatment 4056, 10398
- shoots
 - biochemistry 5839
 - development, plant nutrition 3109
 - histology 5839
- soil amendments 325, 347, 1293, 2145
- soil types 4092
- soilless culture
 - nutrient solutions, temperature 346
 - plant nutrition 2165, 4055
 - systems, hydroponics 8517
- storage, systems, controlled atmosphere 9455

Spinach beets

- fertilizers
 - nitrogen 6773
 - phosphorus 6773
- herbicides, tolerance 3071
- nutritive value 7653
- photosynthesis, carbon dioxide 4063
- salinity, responses 6774
- soil amendments 351, 2113, 3122
- soilless culture, systems, hydroponics 6737
- weed control 3121

Spiraea japonica, fertilizers 6187

Spiraea prunifolia

- pollution
 - exhaust gases 10717
 - lead 10717

Spiraea vanhouttei, pest control, Aphididae 8384

Spiranthes cernua, photosynthesis, physiology 7067

Spiranthes odorata

- mycorrhizas 705
- seedlings
 - development
 - light 705
 - mycorrhizas 705

Spiranthes spiralis, *in vitro* culture, propagation, techniques 7055

Spiroplasma citri

- Citrus* 3592
- oranges 8078

Spirospermum penduliflorum, taxonomy, chemotaxonomy 5344

Spirulina, *in vitro* culture, culture media 3326-3327

Spirulina platensis

- cultural methods, India 5354
- fertilizers 8049
- photosynthesis, photoinhibition 10816

Spodoptera depravata, lawns and turf 4352, 10674

Spodoptera exigua

- onions 10385
- peas 3214
- Welsh onions 3100

Spodoptera frugiperda, *Capsicum* 1417

Spodoptera litura

- cabbages 3146, 3149
- cauliflowers 4104
- peas 3214

Spondias dulcis

- fruits, aroma, biochemistry 3695
- surveys, Vanuatu 10904

Spondias purpurea

- plant, development, phenology 2781
- plant nutrition 2781

Spores

- germination
 - biochemistry
 - Anemia phyllitidis* 4362
 - Dryopteris filix-mas* 4362

Spores *cont.*germination *cont.*

- culture media, *Pleurotus cystidiosus* 3367
- light, *Pleurotus cystidiosus* 3367
- temperature, *Pleurotus cystidiosus* 3367

Spraying

- coverage, assessment, apples 6568
- equipment
 - apples 6569
 - cashews 5466
 - coffee 5481
 - fruit crops 1910, 3735, 7432
 - grapes 1910, 6712-6713, 8478
 - hops 1910
 - kale 5847
 - lawns and turf 1581
 - lettuces 5847
 - mandarins 8070
- requirements, determination, apples 5621, 9192

techniques

- assessment
 - apples 1126
 - black currants 8404
 - carrots 2322
 - grapes 1241
 - nectarines 6622
 - peas 8605
 - Vicia faba* 8605

Sprekelia formosissima

- bulbs, morphology 5208
- roots

- morphology 5208
- physiology 5208

Sprouting broccoli (*see* Broccoli)**Squash mosaic comovirus**

- Lagenaria siceraria* 5890
- melons 3668

Squashes (*see also* Cucurbita)

- cultural methods, Australia 2196
- disease control, zucchini yellow mosaic potyvirus 3176
- economics, Australia 3160
- pest control
 - Diaphania hyalinata* 406
 - Spain 2116
- plant nutrition, nitrogen 2202
- processing, quality, herbicides 2201
- production, China 1347
- research, USA 1346
- seedlings
 - biochemistry
 - light 5917
 - photoperiod 5917
 - temperature 5917

Sri Lanka

- Allium*, production 5806
- Hevea*, ecology 10988
- onions, cultivars 4037
- tea, surveys 7350

St. Augustine grass (*see* *Stenotaphrum secundatum*)**Stachys officinalis**, allelopathy 8211**Stachys sieboldii**

- in vitro* culture, propagation, micropropagation 5145

tubers

- conferences 6478
- development
 - biochemistry 6967
 - physiology 6965-6966

Stachytarpheta indica

as weeds

- Citrus* 9884
- mangoes 9884

Stachytarpheta sellowiana, conservation, Brazil 3456**Staking**

- materials, temperate fruits 10087
- responses
 - Dioscorea floribunda* 10783
 - melons 3672

Stanhopea, taxonomy, nomenclature 7056**Stapelia semota**, *in vitro* culture, propagation, micropropagation 5246**Starch**

- biochemistry, radishes 393
- biosynthesis, peas 2261

Starch *cont.*

composition

- almonds 7450
- Amaranthus* 4257
- Amomum maximum* 1661
- Cymbidium* 10700
- persimmons 10896
- determination, olives 10884
- metabolism
 - alcohols, okras 6893
 - biochemistry
 - Amaranthus edulis* 4258
 - Flaveria trinervia* 4258
 - carbon dioxide, *Opuntia ficus-indica* 7257
- cultivars, *Capsicum* 10530
- cultural methods
 - apples 1080
 - Capsicum* 10530
 - chrysanthemums 605
 - kiwifruits 3001
- development
 - mangoes 4629
 - Nerine bowdenii* 6130
 - Prunus pseudocerasus* 164
- dormancy, strawberries 6677
- flooding, *Momordica charantia* 10465
- flowering
 - cashews 7282
 - Rudbeckia hirta* 7882
 - satsumas 3604

fruiting

- kiwifruits 6645
- peaches 176

germination

- Nelumbo nucifera* 7914
- okras 6886

grafting, roses 5270

hypoxia, bananas 4585

in vitro culture, *Brassica alboglabra* 4089

irregular bearing, mandarins 7215

irrigation, pomegranates 10898

light, *Panax pseudoginseng* 1689

maturity

- bananas 6383
- Freesia* 9697
- pears 8373

mycorrhizas, *Ziziphus mauritiana* 5518

nitrogen, grapes 10329

physiology

- Litchi* 1754
- Paeonia lactiflora* 2562

plant growth regulators

- apples 1080
- pomegranates 10898
- roses 5270

plant training, mangoes 9977

pollination, *Hibiscus rosa-sinensis* 4418

potassium

- apples 8278
- Cymbidium sinense* 1604

pruning, apples 98

ringing, *Litchi* 1754

ripening

- figs 9275
- grapes 6723
- kiwifruits 2998, 10274

rootstock scion relationships,

- grapefruits 7196

seasonal variation

- apricots 9241
- Calliblepharis jubata* 10806
- grapes 3966
- peaches 10213
- Pyrus pyrifolia* 8361
- Syringa vulgaris* 7082

senescence, *Mirabilis jalapa* 4311

storage

- apples 142, 2917
- Castanea crenata* 4819

temperature

- cabbages 10453
- grapes 7633
- peas 10505
- Pyrus pyrifolia* 8361

Statherotis leucaspis, *Litchi* 8092**Stathmopoda**, kiwifruits 9336**Statistical analysis**

sampling

- apples 1981
- kiwifruits 10271

techniques

- horticultural crops 1053
- strawberries 2052
- tomatoes 543

Stecklings, production, celery 5143**Steinernema**

control

- of Diptera, ornamental plants 588
- of *Otiiorhynchus*, ornamental plants 589

Steinernema anomali, control, of *Diaphania hyalinata*, squashes 406**Steinernema carpocapsae**

control

- of *Amyelois transitella*, almonds 3754
- of *Anarsia lineatella*, almonds 3754
- of *Aristobia testudo*, *Litchi* 2633
- of *Bradysia coprophila*, poinsettias 4397
- of *Brevicoryne brassicae*, Chinese cabbages 4105
- of *Byctiscus betulae*, grapes 10340
- of *Carposina sasakii*, apples 120
- of *Cosmopolites sordidus*, bananas 9938
- of *Delia radicum*, cabbages 4106
- of *Diabrotica undecimpunctata undecimpunctata*, Chinese cabbages 4105
- of *Diaphania hyalinata*, squashes 406
- of insects, lawns and turf 4352
- of *Liriomyza trifolii*, chrysanthemums 1539
- of *Listronotus oregonensis*, carrots 1483
- of *Otiiorhynchus* ornamental plants 590
- Rhododendron* 590
- of *Otiiorhynchus sulcatus*, strawberries 7588

Steinernema feltiae

control

- of *Agrotis ipsilon*, okras 7770
- of *Bradysia coprophila*, poinsettias 4397
- of *Bradysia paupera*, *Fuchsia* 5286
- of *Diaphania hyalinata*, squashes 406
- of Diptera ornamental plants 590
- Rhododendron* 590
- of *Lycoriella auripila*, mushrooms 3337

Steinernema glaseri, control, of *Diaphania hyalinata*, squashes 406**Steinernema riobravii**, control, of *Diaprepes abbreviatus*, *Citrus* 8073**Stelechocarpus burahol**, ovules, morphology 2834**Stelis**, taxonomy, nomenclature 7056**Stelis croatii**, taxonomy, new taxa 9753**Stelis ingramii**, taxonomy, new taxa 9753**Stelis kareniae**, taxonomy, new taxa 9753**Stelis morae**, taxonomy, new taxa 9753**Stelis oscitans**, taxonomy, new taxa 9753**Stellaria media**

as weeds

- apples 1075, 1949
- olives 8097
- pears 1949

Stemphylium, *Asparagus* 3223**Stemphylium solani**, tomatoes 1433-1434, 1436**Stemphylium vesicarium**

- Asparagus* 456, 5065
- onions 340, 10384
- pears 1165, 7447

Stenoptera, taxonomy, nomenclature 7056**Stenosiphonium wightii**

- geographical distribution 7123
- ornamental value 7123

Stenotaphrum secundatum

- drought, resistance, assessment 10667
- frost, resistance, cultivars 4342
- herbicides, responses 2422

plant

- anatomy 4354

Stenotaphrum secundatum *cont.*

- plant *cont.*
 - development
 - assessment 4354
 - temperature 10676
 - transpiration, measurement 4356

Stephanis pyrioides, *Rhododendron* 723**Sternochetus mangiferae**, mangoes 6431**Steroids**

- biochemistry, cucumbers 5034
- biosynthesis, spinach 350, 8522
- characterization, *Petunia* 8760
- composition
 - Lilium martagon* 5199
 - rhubarb 467
 - spinach 4061
- production, cultural methods, *Costus speciosus* 2542
- responses, grapes 302

Sterols

- biosynthesis, *Catharanthus roseus* 6277

composition

- Apiaceae 3521
- carnivorous plants 2391
- Citrus poonensis* 4514
- Erythronium japonicum* 6135
- olives 8988
- rhubarb 467
- metabolism
 - biochemistry, peas 8615
 - in vitro* culture
 - celery 556
 - tomatoes 4239
 - mycorrhizas, leeks 6748
 - plant growth regulators
 - Kalanchoe blossfeldiana* 2433
 - tulips 3436
 - ripening, peaches 179
 - salinity, *Simmondsia chinensis* 10805
 - senescence, tulips 3436
 - storage, tomatoes 7830
- taxonomy, *Trigonella* 8928

Stethopachys formosa

- Epidendrum obrienianum* 1608

Orchidaceae 1607

Steudefneria discolor, characteristics 620**Stevia rebaudiana**

- chloroplasts, biochemistry 9868
- cuttings, development, assessment 8050
- fertilizers

- nitrogen 8051
- phosphorus 8051
- potassium 8051

in vitro culture

- cytology 4473
- organogenesis 4473
- propagation, responses 8050

- leaves, biochemistry 3560

plant

- development
 - light 5355
 - photoperiod 5355

- plant residues, utilization, growing media 977

- seeds, storage, systems 1708

- trichomes 2533

Stigmata carpophila, stone fruits 9163**Stizolobium** (see *Mucuna*)**Stocks** (see *Matthiola*)**Stokesia laevis**, *in vitro* culture, propagation, micropropagation 621**Stomata**

anatomy

- Bauhinia* 7105
- Orchidaceae 6166

- biochemistry, *Vicia faba* 1384, 2242, 3205, 4169

composition

- Carica quercifolia* 9990
- pawpaws 9990

development

- anatomy
 - Ipomoea* 6998
 - Pharbitis nil* 6998

frequency

- Blossfeldiana liliputana* 9736
- Citrus* 10828
- figs 8343
- Forsythia intermedia* 2502
- Orchidaceae 6166

Stomata *cont.*

histology

- Callistemon citrinus* 2491

- grapes 8479

movement

- biochemistry, *Vicia faba* 6855

- cultivars, *Musa* 3642

diurnal variation

- grapes 6714

- Hevea* 2745

- flooding, tomatoes 5111

- irrigation, apples 1077

light

- Gaillardia pulchella* 10626

- grapes 6714

- pawpaws 6437

physiology

- grapes 8480

- Vicia faba* 433-434, 1383, 4170

plant growth regulators

- Malus* 1651

- Tropaeolum majus* 623

- salinity, *Capsicum* 8627

- senescence, *Tropaeolum majus* 623

- shade, pawpaws 6437

- temperature, *Vicia faba* 4167

- water stress, pawpaws 6437

- waterlogging, strawberries 3015

physiology

- ion transport, *Vicia faba* 3206

light

- Capsicum* 744

- Vicia faba* 5957

- plant growth regulators

- cucumbers 5848

- lettuces 5848

- Vicia faba* 4168

- pollution, grapes 1230

- propagation, dates 2629

- research, *Vicia faba* 8601

ultrastructure

- Tradescantia* 9748

- Tradescantia virginiana* 6165

Stone fruits

disease control

- conferences 3707

- Italy 4719, 9163

- plum pox potyvirus 4719

- USA 7446

- diseases, books 995

- disorders, books 995

fruits

- mechanical properties, assessment

- 5579

- morphology 5579

- hail, protection 1057

- irrigation, requirements, determination

- 7442

- nutrients, requirements, analysis 10088

pest control

- conferences 3707

- Italy 3749

- USA 7446

- planting, spacing 9161

- production, Italy 8232

- rootstocks, histology 10083

- storage, diseases 9223, 9303

Stooling

responses

- Borassus flabellifer* 7374

- Psidium* 10940

techniques

- apples 10099

- guavas 9957, 10938-10939

- Psidium* 10940

- Psidium chinensis* 9957, 10938

Storage

anatomy, mushrooms 3343

biochemistry

- apples 131, 139, 142-143, 148, 1119,

- 3802-3803, 5629, 7508, 8314,

- 9218

- Asparagus* 2264

- aubergines 7786

- avocados 816, 8936

- Azadirachta indica* 10771

- bananas 5462

- blackberries 4894

- broccoli 3152, 4121

- cabbages 6797

- Capsicum* 2284

Storage *cont.*biochemistry *cont.*

- carrots 7841

- Castanea crenata* 4819

- celery 1490

- cherimoyas 8109

- chestnuts 6607

- coconuts 9953

- cucumbers 2223, 6839

- Cucurbita pepo* 417, 5040-5041, 5925

- fruit crops, reviews 7434

- hazelnuts 10201

- horticultural crops 3737

- kiwifruits 222, 6645

- lemons 7225

- lettuces 1317

- mandarins 7226, 10863

- melons 4614

- nectarines 185, 2009

- olives 4554, 7251

- onions 4964

- oranges 4531

- peaches 185, 6627

- Pyrus bretschneideri* 3896

- quinces 4861

- satsumas 5399

- strawberries 4894, 9374

- tea 7366

- tomatoes 5130

- Tuber magnatum* 10603

- Volvariella esculenta* 6078

buildings

- bananas 5462

- mandarins 6338

- vegetables 7650

cold storage, apples 8310

- conferences, horticultural crops 14

- cultivars, pears 4845

disease control

- apples 1125-1126, 6588, 7510, 10164

- avocados 3579, 6309

- bananas 9013

- broccoli 4119

- Capsicum* 475, 4196

- cucumbers 6838

- grapefruits 4530, 5400, 7219, 8056

- grapes 4933

- kiwifruits 2042, 7563

- kumquats 845

- lemons 2623, 8082

- mandarins 847, 6341, 7228-7229

- mangoes 7340, 9984, 10975-10978

- nectarines 1156

- Opuntia ficus-indica* 10903

- oranges 1742-1743, 7227

- peaches 3884

- pears 2017, 6588, 6634, 7540, 10164

- persimmons 1765

- Piper betle* 3559

- plums 1179

- raspberries 231

- roses 4405

- strawberries 5738

- tangelos 6341

- tomatoes 6947, 10572

tropical fruits

Storage cont.**diseases cont.**

olives 8105
oranges 8970
peaches 3883, 9302
plums 7552
pome fruits 9223
roses 7098
sapodillas 6449
stone fruits 9223, 9303
strawberries 3027, 4895, 7591
tomatoes 1477, 6039
tropical fruits, books 992
Vaccinium ashei 9352, 10285
Vaccinium corymbosum 7591, 10286
Ziziphus mauritiana 967

disorders

apples 141, 145-146, 149-151, 1120-1124, 1978-1980, 2919, 2921, 3802, 3804, 4790, 4800-4801, 5627, 5629, 6587, 7478, 7505-7510, 8284, 8314-8316, 9222, 10122, 10155-10156, 10160-10162
Asparagus 5988, 10515
avocados 809-812, 814, 816-817, 2584, 3580, 4484-4485, 4488, 5359, 8936
bananas 4586, 6384, 7278
broccoli 4118
Citrus 2624
Citrus hassaku 844
clementines 4529
cucumbers 418, 5039, 6837
Cucurbita pepo 417, 5040-5041, 5925
dates 5416
Eryngium foetidum 4433
grapefruits 4527, 4530, 5401, 5405, 6340, 7219-7220, 7223-7224, 8081, 9896
lemons 7223, 7225
lettuces 7694, 9467
mandarins 7222, 7226
mangoes 4633, 9983
melons 4615
nectarines 184, 7552
oranges 7220
peaches 9301
pears 141, 193-194, 1164, 1168, 2974, 8375, 10234, 10243
plums 206, 7552
Pyrus bretschneideri 3896, 3898
Pyrus pyrifolia 2972
quinces 4861
sapodillas 6449
Solanum muricatum 4565
tomatoes 2317, 4251, 5130-5131, 6038, 6947, 7800, 10564
tropical fruits, books 992

humidity

apples 10156
bananas 3652, 8502
broccoli 4121
Capsicum 1422
clementines 4529
coffee 7310
durians 972
fruit crops 7435
mushrooms 5146, 9630
onions 342
pears 4844
rambutans 10023-10024
tomatoes 6036
vegetables 7435, 8502
walnuts 208

losses

carrots 9623
Cucurbita pepo 10482
onions 5828, 8507, 8511
tomatoes 1477

models

apples 10148
horticultural crops 10072
pears 10148
tomatoes 10567

packing

apples 4802, 8309, 10149
apricots 10185
Asparagus 221
Capsicum 1422
Eryngium foetidum 4433

Storage cont.**packing cont.**

Flammulina velutipes 10590
kiwifruits 221, 10272
lettuces 2169, 10420
Litchi 8976
mangoes 5496
mushrooms 3342, 5146, 10587
oranges 5403
peaches 4839
Pleurotus ostreatus 10590
rambutans 5521
sapodillas 950, 6449
strawberries 256, 3949, 10303
Vaccinium ashei 10285
Zingiber officinale 7137
Ziziphus mauritiana 967, 3694

pest control

carambolas 970
Citrus 10865
grapefruits 4528
oranges 1742
pawpaws 932
tropical fruits, reviews 5450

pests, tropical fruits, books 992**physiology**

apples 1118, 1977, 5630, 7502-7503, 8312, 9215, 10153
avocados 813, 7192, 10819
bananas 6384
broccoli 7712, 8556
Capsicum 4196
Citrus 843
Cola nitida 9036
cucumbers 5630, 6837
durians 972
fruit crops 10074, 10079
conferences 4666
reviews 4697, 7434
garlic 5787
grapefruits 7223, 10862
guavas 2718
horticultural crops 1053, 10072
reviews 3731
kiwifruits 2041, 2998, 10273
lemons 7223
lettuces 1318, 7694
mandarins 6341
mangoes 1834, 7192, 10974
melons 4615
pears 8372
plums 10253
Pyrus bretschneideri 8374
rambutans 10024
reviews 2778
Solanum muricatum 4565
tangelos 6341
tomatoes 1476, 5131, 6036
vegetables 10079
Vigna radiata 5986
Vigna unguiculata subsp. *sesquipedalis* 5987
Ziziphus sativa 969

precooling

broccoli 2188
carrots 9623
cherries 5641
fruit crops 4706
lettuces 373
mangoes 10973
pears 10243
Pyrus bretschneideri 3894
raspberries 9372
strawberries 9372, 10303
tomatoes 6036
vegetables 4706

quality

altitude, quinces 207
assessment
apples 136, 4793, 10166
apricots 159
guavas 1823
horticultural crops 3737
mushrooms 3353
pears 4845, 8373
tomatoes 6040
biochemistry, apples 4732
climate, apples 146, 4793

Storage cont.**quality cont.****cultivars**

apples 2856, 3805, 4729, 4732-4733, 4793, 4802, 6537, 6592, 9222, 10096
blackberries 6652, 6656
Capsicum 5992, 8621
clementines 10823
cucumbers 7726
Cucurbita maxima 3193, 10482
Cucurbita moschata 10482
figs 4821
grapes 10353
mangoes 9974, 10971
melons 9047
olives 8104
onions 5828, 10376, 10394
pears 2974
radishes 5886
strawberries 256, 4883
tomatoes 1427, 8692, 10539, 10564
Ziziphus sativa 969

cultural methods

apples 4793, 8315, 10158, 10160-10161

avocados 3574
cucumbers 418
grapes 8488
nectarines 4832
Polianthes tuberosa 10663
roses 6198
sapodillas 9086
shallots 5831
tomatoes 3269

drying

garlic 3086
onions 6760

fertilizers

apples 1955, 10122
cabbages 2183
kiwifruits 2993
lettuces 2170
onions 8507
Piper betle 8048
satsumas 3611
tomatoes 7800

gamma radiation, garlic 8504**handling, onions 9448****harvesting, avocados 3578****harvesting date**

apples 138, 150, 1120, 1977, 4733, 7497, 9206, 9209-9210, 9213, 9215, 9222, 10154, 10162
avocados 808, 2583, 5359
blackberries 4877
clementines 7221
mandarins 10863
onions 5828, 6760
pears 194, 8375, 9310-9312, 10243
tomatoes 8692, 10566

irrigation

apples 10114
grapes 10353
kiwifruits 8395
mushrooms 9630
pears 187
tomatoes 7800

light

apples 8314
cucumbers 5017
kiwifruits 211

maturity

apples 2917, 7505, 8314, 10154
bananas 10912
blackberries 6656
cucumbers 418
guavas 2718
pears 2974
quinces 207
Solanum muricatum 4565
strawberries 5740
tomatoes 10564

models, horticultural crops 9155**plant extracts, cucumbers 416****plant growth regulators**

apples 101, 131, 1104, 7506
globe artichokes 7681

Storage cont.

quality cont.

plant growth regulators cont.

guavas 10947
kiwifruits 220
onions 8507, 10394
persimmons 9919
Pyrus pyrifolia 2972
satsumas 3611
Vaccinium ashei 239
Ziziphus mauritiana 967

plant nutrition

apples 2922, 4799, 4801
reviews 4798
avocados 811
guavas 10947
kiwifruits 3917
mangoes 10971
oranges 10843
pears 8372
raspberries 6658
Vaccinium ashei 239

pollination

apples 4790
apricots 8326

position

apples 9203, 10161
grapefruits 6340
kiwifruits 8399

pruning, mangoes 10971

rain, grapes 306, 10353

research, horticultural crops 4699

rootstock scion relationships

apples 82, 2919, 8311
clementines 10823
grapefruits 8056

seasons

apples 4793
lettuces 1317

shade

globe artichokes 7681
kiwifruits 211
melons 9963
strawberries 2061-2062

soil types, carrots 1486

soilless culture, tomatoes 9616

spacing, apples 146

temperature, melons 10936

thinning, *Pyrus pyrifolia* 2972

research

fruit crops 10073
mangoes 10971
vegetables 10073

scrubbers

ethylene

apples 6586, 7502, 10150, 10162
grapefruits 8081
kiwifruits 221
lettuces 2169

systems

assessment

apples 150-151
fruit crops, reviews 10077
kiwifruits 221, 3916, 9339
onions 5828-5829
peaches 10221
strawberries 2069
vegetables, reviews 10077

cold storage

apples 138, 147, 1117, 1119,
3802, 4793-4794, 4800,
4802, 5626, 7497, 7500,
8270, 8313, 8321, 9219,
9221, 10154-10156
Asparagus 6883-6884, 10516
aubergines 7786
avocados 811, 813-814, 4485,
5359
broccoli 4118
Castanea crenata 4819
cherries 5641
Cucurbita pepo 5925
currants 10263
cut flowers 600, 616, 2508
Eryngium foetidum 4433
figs 4821
garlic 5787
grapefruits 7220, 7224
kiwifruits 3917, 8401, 10272-
10273, 10275
kumquats 845

Storage cont.

systems cont.

cold storage cont.

Litchi 7236
mandarins 841, 7226, 8969
mushrooms 6062
olives 5432, 8104-8105
onions 342, 10393
oranges 7220
peaches 182, 2008, 4839, 9301
pears 2017, 5626, 6634, 10243
plums 7553, 8386
pomegranates 2662, 5442
quinces 4861
raspberries 6658, 10263
sapodillas 6449
strawberries 10263
tomatoes 6038
tropical fruits 10906
Vaccinium ashei 10285
Vaccinium corymbosum 10286
Vigna unguiculata subsp. *ses-*
quipedalis 5987

controlled atmosphere storage

apples 138-139, 141, 1117, 1119-
1121, 1977, 2917, 3801,
4704, 4797, 5626, 6586,
6593, 7497, 7499, 7502-
7504, 7507-7508, 8310,
8312, 9216-9217, 9219-
9220, 9222, 10150, 10153-
10156, 10160, 10162

apricots 1989, 2928, 7524

avocados 810

blackberries 4876, 4894

broccoli 2189, 4118

Capsicum 2284, 4196, 7782

cherimoyas 9924

cherries 7524

currants 10263

figs 171, 4821, 7526

fruit crops 57-58, 4697, 4703,
5578, 7433-7434, 10079-
10080

conferences 2799

grapefruits 8081

horticultural crops 7437, 10072

reviews 1915

kiwifruits 2041, 7562, 10275

mangoes 1833, 5497, 7338

mushrooms 6062

nectarines 184, 1156, 7524, 7552

olives 8105

onions 342, 4047

Opuntia ficus-indica 7562

peaches 10222

pears 141, 193, 2017, 5626, 8375,
10243

persimmons 3629

Phaseolus vulgaris 5051, 8599

plums 206, 3629, 7524, 7552-
7553, 7562

pomegranates 5442

raspberries 7591

spinach 9455

strawberries 257, 4894, 7526,
7591, 10263

tomatoes 4252, 6036, 9615,
10222

Vaccinium corymbosum 7591

vegetables 57, 4703, 5578, 7433,
10080

conferences 2799

Ziziphus sativa 9615

fruit crops, books 10042

hypobaric storage, avocados 810

hypoxia

apples 8310, 9219

avocados 7192

mangoes 7192

modified atmosphere storage

apples 140, 1119, 10149

apricots 160, 10185

Asparagus 6884, 10516

avocados 810, 813-814, 4704

bananas 887, 7278, 10912

broccoli 4120-4121

Capsicum 7781

cherries 9269

cucumbers 6838

Storage cont.

systems cont.

modified atmosphere storage cont.

fruit crops 56, 4697, 4701, 5578,
10075

grapes 10354

horticultural crops 2838, 7781,
9156, 10072

kiwifruits 221, 10272

mangoes 4704, 5496, 7338

mushrooms 3342, 4269, 5146,
9630

pears 193

Phaseolus vulgaris 9530

rambutans 5521

sapodillas 6449

spinach 9455

strawberries 3949, 9374

tomatoes 7829

Vaccinium corymbosum 10286

vegetables 56, 4701, 5578, 10075

Vigna radiata 5986

precooling, strawberries 4895

sulfur dioxide, grapes 308, 6724

temperature

apples 138-139, 150, 1120, 3803,
4802, 8313, 8320

apricots 1989, 10185

Asparagus 459

aubergines 7786

avocados 801, 809-810, 812, 2584,
3577, 4480, 4484, 4488, 5359

bananas 887, 4586, 7278

broccoli 4118

Capsicum 5992

carrots 9623

cherimoyas 8109

cherries 7521

chestnuts 6607

Citrus hassaku 844

coffee 7310

cucumbers 5039

cut flowers 5172

dates 5416

durians 972

Eryngium foetidum 4433

fruit crops 10080

garlic 2121

grapefruits 4527, 5401, 6340, 9896,
10862

guavas 2718

hazelnuts 10201

kiwifruits 222

lettuces 1317, 2169-2172

mandarins 841

mangoes 924, 4633, 5497, 7335

nectarines 2009

olives 5432, 7251

onions 4047, 4964

pawpaws 9994

peaches 5669, 9301

pears 192

Phaseolus vulgaris 5051, 8599

plums 206, 8386

Prunus pseudocerasus 164

satsumas 5406, 6339

Sechium edule 5038

Solanum muricatum 4565

strawberries 256, 5740

tamarillos 6368

tomatoes 543-544, 5127, 6041, 7829-
7831, 9614, 9618, 10564

Tuber magnatum 10603

vegetables 10080

walnuts 208

treatment

adjuvants, mangoes 9983

alcohols

apples 1978

avocados 815

broccoli 4119

lemons 2623

amines, apples 151

amino acids, lettuce 9467

anoxia, avocados 815

antioxidants

apples 145, 150, 3804, 4800,
5629

avocados 3579

tomatoes 5127

Storage cont.

treatment cont.

- ascorbic acid
 - apples 10151
 - mandarins 3609
 - mushrooms 10587
- bleaching powder, *Piper betle* 3559
- boron, guavas 7318
- calcium
 - apples 4801, 5628, 10159
 - fruit crops 5578
 - grapefruits 5405
 - pears 6634
 - sapodillas 9086
 - vegetables 5578
- calcium carbonate, fruit crops 6524
- calcium chloride
 - apples 148, 4799, 10157
 - apricots 10184
 - bananas 9939
 - fruit crops 6524
 - guavas 7318
 - kiwifruits 1188
 - Litchi* 1757
 - loquats 7240
 - mangoes 7339
 - Pyrus* 3895
 - Pyrus bretschneideri* 3897
 - strawberries 4896
 - tomatoes 1477
 - Ziziphus mauritiana* 11019
- calcium nitrate, *Litchi* 1755
- carbon dioxide
 - apples 7504
 - avocados 810, 4483
 - grapefruits 8081
 - horticultural crops, reviews 1915
 - pecans 6636
 - strawberries 9373
 - tomatoes 10572
- chlorine, carrots 9623
- coatings
 - bananas 9939
 - Capsicum* 8639
 - fruit crops 5578
 - grapefruits 5402
 - Litchi* 5421
 - oranges 5402
 - vegetables 5578
- cycloheximide
 - Asparagus* 10515
 - mangoes 9981
- dactinomycin, *Asparagus* 10515
- desiccants, vegetables 6743
- essential oils, mandarins 7228
- fatty acids, *Citrus hassaku* 844
- fruit crops, books 10042
- fungicides
 - apples 1126, 3804, 5629
 - avocados 3579
 - Castanea mollissima* 1995
 - grapefruits 5405, 7219, 9896
 - lemons 8082
 - Litchi* 1757
 - mandarins 841, 6341, 7228-7229
 - mangoes 7340
 - Opuntia ficus-indica* 10903
 - oranges 5403
 - pears 2017
 - persimmons 5437
 - sapodillas 950, 9086
 - tangelos 6341
 - Ziziphus mauritiana* 968, 3694, 11019
- gamma radiation
 - Agaricus campestris* 572
 - clementines 8083
 - grapefruits 4530, 5400
 - onions 2140
 - pawpaws 9064
 - walnuts 209
 - Zingiber officinale* 7137
- heat
 - apples 7508, 9218, 9221, 10159
 - atemoyas 10909
 - avocados 2584, 3580, 8936
 - Citrus junos* 10864
 - cucumbers 6837
 - fruit crops 5578
 - grapefruits 4528
 - lemons 846

Storage cont.

treatment cont.

heat cont.

- mandarins 7229
- mangoes 4634
- oranges 1742
- pawpaws 932
- peaches 6627
- pears 2017
- satsumas 8967
- strawberries 1215
- tomatoes 6038, 6946-6947, 7830
- vegetables 5578
- hot water treatment
 - avocados 3580, 4486
 - broccoli 5878
 - clementines 8083
 - coconuts 9953
 - cucumbers 6837
 - grapefruits 7219, 7224
 - kumquats 845
 - lemons 7225
 - mangoes 10975, 10978
 - Opuntia ficus-indica* 10903
 - oranges 1742
 - sapodillas 9085
 - strawberries 4896
 - tomatoes 7830
 - Ziziphus mauritiana* 3694
- hydrochloric acid, *Litchi* 1755
- hydrogen peroxide
 - grapes 4933
 - lemons 2623
- hypoxia
 - avocados 4483
 - chestnuts 6607
 - horticultural crops, reviews 1915
 - tomatoes 10572
- infrared radiation, mangoes 10977
- insecticides
 - apples 4802
 - dates 852
 - satsumas 5406
- ionizing radiation, strawberries 3027
- irradiation, tomatoes 6036
- light, strawberries 5738
- nitrogen, avocados 815
- nitrous oxide, figs 4821
- oils
 - apples 1979
 - Citrus hassaku* 844
 - mangoes 9983
- organic acids
 - lettuces 9467
 - mushrooms 10587
 - satsumas 3611
- phenolic compounds, lettuce 9467
- plant extracts
 - cucumbers 416
 - mandarins 847
- plant growth regulators
 - apples 150-151
 - bananas 887, 7276, 8502
 - broccoli 10456
 - Castanea mollissima* 1995
 - Citrus* 843
 - cucumbers 416
 - grapefruits 846
 - guavas 2718, 7318, 9971
 - kiwifruits 2999, 7561
 - lemons 846
 - Litchi* 7236
 - mangoes 9981
 - onions 10392
 - pears 5679, 8371-8372
 - persimmons 5437
 - sapodillas 950, 9085-9086
 - satsumas 3611
 - tamarillos 6368
 - tomatoes 7830
 - vegetables 8502
 - Ziziphus mauritiana* 968, 3694
- potassium metabisulfite
 - apples 10151
 - Litchi* 1755
- potassium permanganate
 - Piper betle* 3559
 - strawberries 2069
 - Ziziphus mauritiana* 968
- research, horticultural crops 4699
- silver nitrate, sapodillas 950

Storage cont.

treatment cont.

- silver thiosulfate, mandarins 3609
- sodium alginate, *Castanea mollissima* 1995
- sodium chloride
 - apples 10151
 - mushrooms 6062
- sodium hypochlorite
 - mandarins 6341
 - mushrooms 10587
 - Piper betle* 3559
 - tangelos 6341
- sodium metabisulfite
 - Litchi* 1755
 - mushrooms 6062, 10587
- stabilizers, *Castanea mollissima* 1995
- sucrose esters
 - apples 144, 147, 3804, 4800, 5625, 5629-5630, 10164
 - apricots 159
 - bananas 7276, 9939
 - Castanea mollissima* 1995
 - clementines 7221
 - cucumbers 5630
 - figs 4821
 - kumquats 845
 - oranges 5403
 - pears 144, 10164
 - satsumas 3610, 8967
- sulfur, *Litchi* 1756
- sulfur dioxide
 - figs 4821
 - grapes 10353
 - lemons 2623
 - Litchi* 1755, 8976
- surfactants
 - apples 2918
 - mangoes 9983
- ultraviolet radiation
 - mandarins 7229
 - nectarines 9306
- vitamins
 - apples 151
 - mandarins 3609
- volatile compounds, apples 8315
- waxes
 - apples 5625
 - atemoyas 10909
 - avocados 809, 4482
 - Citrus hassaku* 844
 - cucumbers 5039
 - grapefruits 4527, 5402
 - mandarins 8968
 - mangoes 10975
 - oranges 4531, 5402-5403, 8968
 - sapodillas 950
 - satsumas 3610, 5406
 - Ziziphus mauritiana* 3694
- ventilation
 - apples 5626
 - Cucurbita* 3192
 - pears 5626
- wrappings
 - apples 1976
 - apricots 10183
 - atemoyas 10909
 - avocados 4482
 - bananas 9013
 - broccoli 4120
 - dates 10875
 - grapefruits 9896
 - guavas 9971
 - lemons 8082
 - lettuces 373
 - mangoes 1976
 - peaches 183
 - persimmons 9918
 - plums 183
 - satsumas 8967
 - Sechium edule* 5038
 - strawberries 4895

Straw

utilization

fertilizers

- Capsicum* 473
- Pleurotus sajor-caju* 9637

growing media

- Agrocye* 2355
- Auricularia polytricha* 3355
- cucumbers 1357, 3173

Straw *cont.*utilization *cont.*

- growing media *cont.*
 - edible fungi 2334
 - Ficus benjamina* 10687-10688
 - horticultural crops 2814
 - Pleurotus* 2355, 6072
 - Pleurotus ostreatus* 6985, 7854, 8735
 - Volvariella esculenta* 6078
 - Volvariella volvacea* 1508

mulches

- Annona squamosa* 2670
- apples 8264
- bananas 8122
- Bupleurum falcatum* 10779
- cabbages 377
- Capsicum* 3238
- Citrus* 8068
- Hevea* 2747
- hops 9841
- temperate fruits 1058, 3743
- tomatoes 4940, 6920
- packing, oranges 8084
- protected cultivation, strawberries 3939
- soil amendments, spinach 1293

Strawberries

- buds, development, biochemistry 4892
- chilling requirement 6671, 9364
- cultivars

assessment

- Belgium 9357, 10288-10289
- Brazil 7405
- Canada 1203, 3935
- Denmark 9356
- Greece 8427
- Italy 2054-2055, 3932-3933
- Japan 240
- Poland 4882, 7581, 7584
- Slovenia 7580
- Turkey 10294
- USA 1203, 3012

characteristics

- Australia 5717-5719, 6670
- books 989
- Canada 9358
- China 2056
- Europe 2057
- Italy 3013, 5714-5716, 6667-6669
- Switzerland 8422
- UK 7582
- USA 1204, 5720

- composition 3936, 4897, 5739, 6679
- disease resistance 1202, 2056, 3011, 3934, 7582

- forcing 253
- germination 241
- harvesting 2053
- processing 9160

cultural methods

- Japan 3946
- Switzerland 5713

disease control

- Botrytis cinerea* 1048, 5738
- China 10297
- Colletotrichum* 9369-9370
- Corticium rolfsii* 5732
- diseases 1211
- Fusarium oxysporum* f.sp. *fragariae* 248, 3944
- Macrophomina phaseolina* 5732
- Phytophthora cactorum* 2066
- Phytophthora fragariae* 1212
- Rhizoctonia fragariae* 5732
- USA 3907, 9365, 9368
- viruses 1211
- Xanthomonas fragariae* 3020

disorders, white shoulders 5738

dormancy, physiology 6677

drought, responses 3022

economics, Argentina 3723

fertilizers 1206

- calcium 247
- iodine 9478
- magnesium 1210
- molybdenum 9478
- nitrogen 1210, 2065, 4889-4891, 5730, 8428, 9366-9367, 10295
- phosphorus 1210, 10295
- potassium 1210, 3942, 10295

Strawberries *cont.*fertilizers *cont.*

- vanadium 9478

flowers

- development, propagation 3937, 4886
- initiation
 - biochemistry 254
 - cultural methods 5735
 - photoperiod 6677
 - temperature 6677
- thinning, responses 240

forcing 253, 1206

frost, protection, materials 3939

fruits

- aroma
 - biochemistry 3023
 - cultivars 4897
- biochemistry 247, 3948
- plant growth regulators 8429
- browning, biochemistry 8228
- colour
 - ionizing radiation 3027
 - light 5738
- composition 3950, 5739, 6679, 10069
- development
 - assessment 3022
 - biochemistry 9374
 - physiology 5737
 - reviews 3947
- plant growth regulators 2068
- flavour, ionizing radiation 3027
- mechanical properties
 - assessment 5740
 - ionizing radiation 3027

quality

- assessment 4898, 10264, 10302
- cultivars 3935-3936, 4883, 9356
- harvesting date 3024-3025
- measurement 3950
- pollination 255

ripening

- physiology, reviews 3947
- plant growth regulators 2068
- storage 2069

- set, cultural methods 5735
- size, cultural methods 5735
- ultrastructure 247

growing media

- composition 10294
- temperature 5728

hail, injuries 4717

harvesting

- equipment 3026, 6678
- harvesting date, plant growth regulators 7590
- techniques, mechanical harvesting 2053

herbicides

- injuries 6673
- tolerance 2063

in vitro culture

- biochemistry 1214, 9371
- metabolites, production 3018
- organogenesis 3938
- propagation
 - micropropagation 2058, 10291
 - responses 3937, 4886
- responses, mycorrhizas 2059

irrigation

- carbon dioxide, application 244, 3940
- fertigation 5731
- responses 8428
- systems 5727, 8428
- water, temperature 3025

leaves, areas, assessment 10300

manures 5730

mulching, responses 7587

mycorrhizas 1209, 2059, 3941, 4692

organic culture 5721

pest control

- arthropods 1211, 5733
- Frankliniella bispinosa* 1213
- Frankliniella occidentalis* 10299
- insects 3945, 6676
- Lygus hesperus* 250
- Meloidogyne hapla* 249
- Otiorynchus sulcatus* 7588
- Pachybrachius bilobatus* 1213
- Pratylenchus penetrans* 249
- Tetranychus kanzawai* 2067, 3021

Strawberries *cont.*pest control *cont.*

- Tetranychus urticae* 1213, 2831, 3021, 5734, 5902, 10298
- USA 3907, 9365, 9368

pesticides, residues 7421

photosynthesis, waterlogging 10301

plant

- biochemistry, seasonal variation 251
- development
 - models 10300
 - phenology 3014

plant growth regulators

- ascorbic acid, responses 3017
- chlzolinate, responses 245
- ethylene, responses 258
- gibberellic acid, responses 3017
- isoprothiolane, responses 7590
- NAA, responses 3017
- uniconazole, responses 7590

plant nutrition, zinc 10296

planting

- planting date 1205, 4887, 5726, 7585, 9362-9363, 10294
- site preparation 5722
- spacing 7584, 8426
- systems 7586

planting stock

- production, cultural methods 1205, 2058, 3019, 4884-4885

quality

- altitude 4884
- assessment 8425
- size 1205
- storage 7583, 8423, 9359-9360, 10263
- types, assessment 5722

pollen, storage 4893

pollination

- pollinators, Apidae 255
- techniques 5736

pollution, acid rain 5560

processing, quality, cultivars 9160

production

- Europe 3931
- Malaysia 9130
- Philippines 9355

production possibilities, Syria 10287

protected cultivation

- carbon dioxide 1208, 6674
- cultivars 2054-2055
- cultural methods 3941, 5724
- fertilizers 243, 5731
- irrigation 243
- light 3024, 5723, 9364, 10292-10293
- pest control 243, 6676
- plastic film 5722
- systems, plastic tunnels 5725-5726, 9147
- temperature 3024

reports, France 3712-3713

research

- Belgium 1889
- experimental plots 2052
- Netherlands 8201

roots

- biochemistry, flowering 4892
- composition 252

runners

production

- containers 9361
- cultural methods 2058, 7585
- environment 10290
- types, assessment 8424

seeds

germination

- seed treatment 241
- storage 241

shade, responses 242, 2061-2062

shoots

- biochemistry, flowering 4892
- physiology 7589

soil amendments 2060, 2065, 4889-4891

soil fumigation 5722, 5725, 5732

soil sickness 1207

soilless culture

- cultural methods 8427
- fertilizers 5731
- growing media 246, 10296
- nutrient solutions
 - composition 4888, 6675

Strawberries cont.soilless culture *cont.*nutrient solutions *cont.*

pH 4888

plant nutrition 5729, 10296

storage

biochemistry 4894

disease control 5738

diseases 3027, 7591

packing 256, 3949, 10303

precooling 9372, 10303

quality

cultivars 4883

shade 2061-2062

systems

assessment 2069

cold storage 10263

controlled atmosphere storage

257, 4894, 7526, 7591,

10263

modified atmosphere storage

3949, 9374

precooling 4895

temperature 256, 5740

treatment 1215, 2069, 3027, 4896,

5738, 9373

taxonomy, nomenclature 7579

translocation

physiology 8429

source sink relations 5737

transpiration, waterlogging 10301

waterlogging, responses 3015, 10301

weed competition 2064

weed control 2063, 3016, 3907, 6672,

9365

Streblus asper, laticifers, development, *in**vitro* culture 782**Strelitzia**, cut flowers, production possibili-

ties, Mauritius 10605

Strelitzia reginae

anthers, histology 6118

cut flowers

preservatives 7886

vase life 1557, 7886

Streptomycescontrol, of *Clavibacter michiganensis*subsp. *michiganensis*, tomatoes

1451

seed inoculation, onions 3089

Streptomyces anulatus, control, of *Fusarium**oxysporum* f.sp. *fragariae*, strawberries

3944

Streptomyces griseoviridis

control

of *Fusarium oxysporum* f.sp. *dianthi*,

carnations 2380

of *Fusarium oxysporum* f.sp. *lycoper-**sici*, tomatoes 6930of *Pythium ultimum*, tomatoes 6930**Strobilurus tenacellus**

control

of *Podosphaera leucotricha*, apples

8293

of *Venturia inaequalis*, apples 8293**Strontium**

composition

bananas 9935

coffee 9029

grapes 4001

Juglans 10261*Lentinula edodes* 5149

plant nutrition

apples 1985

oranges 5382

sour oranges 5382

translocation, grapes 1442

uptake

Datura fastuosa 7163

grapes 1442

lettuces 1307, 4072

vegetables 6730

Stropharia, growing media, composition

2334

Strychnopsis thouarsii, taxonomy,

chemotaxonomy 5344

Strychnodendron polyphyllum, *in vitro* cul-

ture, organogenesis 3551

Subtropical crops, production possibilities,

South Africa 2578

Subtropical fruits

climate, Argentina 5357

Subtropical fruits cont.

cultivars, characteristics, USA 2810

production

Brazil 6488

Vietnam 2667

production possibilities

Argentina 7403

Malaysia 9130

research, Réunion 2577

Subtropics, fruit crops, research 783**Succulent plants**

cultural methods, containers 10677

ecology, Yemen 1584

wild plants, surveys, Africa 2438

Suckers

control

herbicides

hazelnuts 8341

oranges 5374

mulching, raspberries 7569

development, grafting, *Citrus* 5369

production

age, bananas 4577

cultural methods

bananas 1781, 9931

Metroxylon sagu 4653**Sucrose**

metabolism

biochemistry

Amaranthus edulis 4258*Flaveria trinervia* 4258**Sugars**

biochemistry

Capsicum 8638*Metroxylon sagu* 982

characterization, carrots 2326

composition

almonds 7450

Annona coriacea 8110

apples 4804

apricots 9250

beetroots 4968

broccoli 9417

cabbages 9417

Capsicum 7832

carrots 9417

Citrus 6344

cucumbers 1370

Cucurbita pepo 5921*Cymbidium* 10700

dates 848, 10875

grapes 3999, 6693

guavas 7832

Jerusalem artichokes 8524

kiwifruits 224

lettuces 1305, 4083, 5852

Litchi 4544

onions 2126-2127, 9417

persimmons 872, 4561, 10896

Phaseolus coccineus 5052

plums 3905

Pyrus 5671

radishes 9417

Rubus arcticus 5707

satsumas 7230

spinach 3109, 10404

strawberries 4883

tea 10018

tomatoes 5124, 7832

tropical crops 9923

determination

apples 1981

strawberries 3950

Vaccinium angustifolium 3924

leakage

cabbages 1260

leeks 1260

lettuces 9449

onions 1260

Welsh onions 9449

metabolism

alcohols, okras 6893

altitude

mandarins 10837

oranges 10837

biochemistry, *Phaseolus vulgaris* 425carbon dioxide, *Opuntia ficus-indica*

7257

cultivars

Capsicum 10530

carrots 1480

Sugars cont.metabolism *cont.*cultivars *cont.*

figs 8345

Hevea 937

melons 6409

Vaccinium angustifolium 3924

cultural methods

apples 1080, 8304

Capsicum 10530

chrysanthemums 605, 9662

coffee 1804

grapes 301, 3991, 6721

kiwifruits 3001

tomatoes 6921

development

Chamaecrista uncinatum 10730

loquats 858

melons 5490

nectarines 180

Nerine bowdenii 6130

peaches 180, 5665

Phaseolus vulgaris 10495

plums 9326

Prunus pseudocerasus 164

diseases, okras 5991

disorders

Asparagus 5988

mangoes 7331

oil palms 2728

fertilizers

grapes 10331

lettuces 7689

pawpaws 7345

spinach 8518

tomatoes 8655

flowering

Perilla frutescens 8038*Polianthes tuberosa* 4336*Rudbeckia hirta* 7882

satsumas 3604

fruiting

apples 1973

fruit crops, reviews 4696

kiwifruits 6645

germination

Nelumbo nucifera 7914

okras 6886

harvesting, *Hevea* 937, 5509

harvesting date

carrots 1480

melons 6409

peaches 182

hypoxia, bananas 4585

in vitro culture, *Rhynchosystylis retusa*

7942

insecticides, dates 852

irregular bearing, mandarins 7215

irrigation

Jerusalem artichokes 10405

Urginea maritima 6291

light

Cyamopsis tetragonoloba 2243*Panax pseudoginseng* 1689*Phaseolus vulgaris* 2235

tomatoes 3310

maturity

bananas 6383

Freesia 9697

guavas 6427

pawpaws 1842

Vaccinium angustifolium 3924

mycorrhizas

Cyamopsis tetragonoloba 3209

satsumas 5377

sour oranges 7201

Ziziphus mauritiana 5518

nitrogen

apples 6562

beetroots 4967

grapes 10329

phosphorus, *Panax pseudoginseng*

7171

physiology

Chinese cabbages 6792

Jerusalem artichokes 2152

Paonia lactiflora 2562*Stachys sieboldii* 6966*Vicia faba* 5961*Ziziphus sativa* 7371

Sugars *cont.*metabolism *cont.*

plant growth regulators

apples 1080

Citrus 843, 5389*Luffa acutangula* 3189

mangoes 9057

Momordica charantia 3189

strawberries 8429

tomatoes 9587

watermelons 2710

plant nutrition, tomatoes 8690

potassium

Capsicum 9564*Cymbidium sinense* 1604

pruning

apples 98

tomatoes 3268

ripening

figs 8345, 9275

grapes 304, 3065

kiwifruits 218

Litchi 9902

mangoes 923, 9981, 10974

melons 5490

oranges 5396

passion fruits 8990

persimmons 9919

plums 9326

tomatoes 537, 7826

rooting, peaches 3838

rootstock scion relationships

apples 6562

grapes 3032, 7604

peaches 3844

tomatoes 8655

salinity

apples 6562

onions 1289

peas 5966

sour oranges 7201

tomatoes 8689

seasonal variation

apricots 9241, 10181

carrots 1480

Ficus infectoria 6218*Ficus retusa* 9274

lettuces 372, 8534

melons 6409

Pyrus pyrifolia 8361

strawberries 251

tomatoes 6921, 8655

walnuts 8390

seed development

cucumbers 3190

Phaseolus 9529

seed treatment

Chinese cabbages 9471

radishes 9471

senescence

broccoli 3152

Chamaelium uncinatum 10730*Freesia* 9696

shade

grapes 3991

tomatoes 537

soil, *Panax pseudoginseng* 6287soil types, *Urginea maritima* 6291

spacing, tomatoes 3260, 3310

storage

apples 142, 10158

Asparagus 10515

bananas 887

Castanea crenata 4819

chestnuts 6607

Citrus 843

grapefruits 7220

guavas 10947

Leucadendron 2508

mangoes 1834

onions 4964

oranges 7220

peaches 182, 4839

persimmons 3628

Phaseolus 9529

strawberries 8423-8424, 9373

tomatoes 3269, 9614

temperature

Amaranthus lividus 557

cabbages 10453

grapes 7633

Sugars *cont.*metabolism *cont.*temperature *cont.*

loquats 858

peas 10505

Pyrus pyrifolia 8361

thinning, pomegranates 3633

transpiration, *Vicia faba* 3205

water stress

apples 122, 6575

satsumas 8077

tomatoes 3260, 3267-3268, 3310

zinc, apples 8285

responses

apples 90, 1115

broccoli 3153

chrysanthemums 5172, 6096

Cordyline fruticosa 680

cucumbers 3167

Cyclamen persicum 9695*Gladiolus* 3431

grapes 262, 6691, 9410

Gypsophila 9686*Ixia* 659*Leucadendron* 2508*Lilium japonicum* 2404, 10647

oil palms 6433

olives 861

peaches 3850

peas 1389

Petasites japonicus 8539*Poncirus trifoliata* 8943*Prunus glandulosa* 90

roses 7095

spinach 6772, 7677, 8514

Strelitzia reginae 1557

translocation

celery 555

cucumbers 5919

Cyclamen persicum 633

strawberries 5737

uptake

apples 87

Hemerocallis 4304*Vicia faba* 6854**Suillus bovinus**

pollution

cadmium 6969

copper 6969

lead 6969

Suillus luteus

pollution

cadmium 6969

copper 6969

lead 6969

Sulfur

composition

mangoes 1836

onions 4958

deficiency

cabbages 9479

cucumbers 7734

horticultural crops 8221-8222

Laelia cinnabarina 7059

mangoes 7325

onions 6755

spinach 9453

determination

Citrus 8066

peas 2247

fertilizers

aubergines 3250

cabbages 9479

cauliflowers 382, 10446

cucumbers 4138

garlic 4024

grapes 3052

guavas 6425

horticultural crops 7418

Impatiens walleriana 7876

leeks 9435

Maytenus aquifolium 5341

onions 5822

tomatoes 9597

Trigonella foenum-graecum 2567

metabolism

in vitro culture

cucumbers 4129

Malus 1103iron, *Malus* 1103**Sulfur** *cont.*metabolism *cont.*

mycorrhizas

cherries 1132

Citrus limonia 8060

mandarins 8060

salinity, apples 6560

seasonal variation, *Protea* 741

plant nutrition

blackberries 10279

cashews 1794

Chinese cabbages 5867

Clematis vitalba 5283*Impatiens walleriana* 7876*Laelia cinnabarina* 7059

mangoes 7325

onions 2135, 4958

tea 959

tomatoes 10491

Vaccinium corymbosum 10283

uptake

apples 106

Kalanchoe daigremontiana 7047

onions 5822

Sulfur dioxide

responses

Capsicum 10525

radishes 5882

toxicity

cashews 9015

cucumbers 3170

tomatoes 5093

Vicia faba 3203

watermelons 9962

Sunflowers

cultivars

characteristics, UK 10630

cut flowers 9688

cut flowers, production, cultural methods

9688

Supervised control

Coccoidea, kiwifruits 7560

Cydia pomonella, apples 2897*Frankliniella occidentalis*

cucumbers 8577

nectarines 8352

peaches 8352

Thrips palmi

cucumbers 8577

watermelons 8577

Tortricidae, kiwifruits 7560

Surfactants, responses, *Citrus latifolia* 7212**Surveys**

techniques

aerial methods, pecans 196

computers, tea 7350

photography, cucumbers 6807

reflectance, pecans 1170-1171

remote sensing 4340, 7595, 8505

Acer negundo 4243

broccoli 336

Hevea 4638

horticultural crops 1891

onions 336

pecans 1170, 2976

subtropical crops 10817

tea 2754

tomatoes 4243

Vaccinium angustifolium 233

visual grading, ornamental woody

plants 2458

Swainsona recta, characteristics 2370**Sweden***Drosera rotundifolia*, ecology 7165

vegetables, marketing 1274

Swedes

leaves, biochemistry, environment 391

organic culture 3313

protected cultivation, systems, plastic

tunnels 317

Sweet tasting compoundscharacterization, *Capparis masaiakai* 1697composition, *Pterocarya paliurus* 4472determination, *Thaumatococcus daniellii*

4474

production, *in vitro* culture, plants,

reviews 7129

Swietenia mahagoni, growing media, com-

position 5296

Switzerland

apples, cultivars 2855, 4729, 8243

Switzerland cont.

- cherries, cultivars 3814, 5638
- damsons
 - cultivars 1173
 - production 9317
- fruit crops, cultural methods 4711
- grapes, pest control 6706
- horticultural crops, cultural methods 6922
- pears, cultivars 8358
- raspberries, cultivars 3921
- strawberries
 - cultivars 8422
 - cultural methods 5713
- temperate fruits
 - disease control 3748, 3751
 - marketing 4714
 - pest control 3748
 - production 4714
- tomatoes, cultivars 1427, 6908
- Syagrus romanzoffianum* (see *Arecastrum romanzoffianum*)
- Symphoricarpos*, taxonomy, morphology 8886
- Symphoricarpos albus*
 - flowers, development, anatomy 7975
 - pollution
 - exhaust gases 10717
 - lead 10717
- Symphoricarpos chenaultii*, fertilizers 6187
- Synanthon myopaeformis*, apples 1958, 1960
- Synanthon tipuliformis*, black currants 5700
- Synchocystis aquatilis*, seed inoculation, okras 2267
- Syngonium podophyllum*, *in vitro* culture, propagation, micropropagation 5247
- Syria, strawberries, production possibilities 10287
- Syringa*, pest control, *Dendrothrips ornatus* 3483
- Syringa reticulata*, cuttings, rooting, irrigation 1517
- Syringa vulgaris*
 - cultivars
 - characteristics
 - France 9777
 - Latvia 9777
 - USA 9777
 - clones 4386
 - cuttings
 - sources, cultural methods 9770
 - treatment 2480
 - flowers
 - development
 - altitude 718
 - models 718
 - herbicides, injuries 7071
 - in vitro* culture, histology 6203
 - leaves
 - biochemistry, measurement 7124
 - composition 7082
 - development, cultural methods 6203
 - physiology 10070
 - photosynthesis, seasonal variation 3484
 - pollution
 - exhaust gases 10717
 - lead 10717
 - shoots, composition 7082
 - weed control 7071
- Systole albipennis*, fennel 5303
- Syzygium* (see also *Eugenia*)
 - cultivars, characteristics, Australia 9642
- Syzygium aqueum*, fruits, composition 5527
- Syzygium aromaticum*
 - cultural methods, India 2517
 - disease control, *Fusarium oxysporum* 4444
 - plant residues, utilization, growing media 977
 - seeds, germination, growing media 8019
- Syzygium cumini*, seeds, set, physiology 7381
- Syzygium jambos*
 - as shade plants, coffee 5479
 - cuttings, treatment 3696
 - fruits
 - composition 5527
 - development, biochemistry 9110
 - pollination, compatibility 7380

- Syzygium malaccense*
 - fruits, composition 5527
 - surveys, Vanuatu 10904
- Syzygium paniculatum*, pest control, *Trioxa eugeniae* 4431
- Syzygium samarangense*
 - cuttings, treatment 2782
 - flowers, drop, temperature 7382
 - fruits
 - composition 5527
 - drop, temperature 7382
 - pollination, compatibility 7380
- Tabernaemontana divaricata*, plant, composition 7947
- Taeniophyllum crepidiforme*, wild plants, conservation, India 7068
- Tagetes*, mycorrhizas 6119
- Tagetes erecta*
 - fertilizers
 - copper 3421
 - nitrogen 4316
 - phosphorus 4316
 - potassium 4316
 - trace elements 3421
 - flowers
 - development, mycorrhizas 7013
 - initiation, mycorrhizas 10634
 - growing media, amendments 9691
 - herbicides, injuries 8745
 - mycorrhizas 7013, 10634
 - plant nutrition, iron 7887-7888
 - roots, physiology 7888
 - seedlings, development, mycorrhizas 7013
 - seeds, production, cultural methods 3421
 - soilless culture, fertilizers 6120
- Tagetes erecta* × *Tagetes patula*, soilless culture, fertilizers 6120
- Tagetes patula*
 - herbicides, injuries 8745
 - irrigation, requirements, determination 6256
 - pest control, *Pratylenchus penetrans* 8847
 - plant, anatomy 4449
 - planting stock, production, soilless culture 8743
 - soilless culture
 - fertilizers 6120
 - plant nutrition 9692
- Tagetes tenuifolia*
 - herbicides, responses 3720
 - mulching, responses 3720
- Taiwan
 - Allium*
 - production 5797
 - species 5797
 - Bupleurum falcatum*, cultural methods 1680
 - Bupleurum kanoi*, cultural methods 1680
 - cut flowers, marketing 2376
 - Euryale ferox*, cultural methods 6964
 - Lentinula edodes*, cultural methods 2357
 - Litchi*, production 2632
 - melons
 - disease control 3667
 - pest control 3667
 - onions, cultivars 4035
 - ornamental plants, research 8203
 - persimmons, cultivars 8991
 - pineapples, cultivars 9995
 - vegetables, production possibilities 9415
- Tajikistan
 - apples, surveys 5583
 - apricots, surveys 5583
 - pears, surveys 5583
- Talaromyces flavus*, control, of *Verticillium dahliae*, aubergines 1423, 6906
- Talinum triangulare*, pollution, heavy metals 6968
- Tamarillos
 - characteristics 8875
 - cultivars, assessment, Italy 2665
 - fruits
 - aroma, biochemistry 3635
 - ripening, storage 6368
 - production possibilities
 - Argentina 5357
 - Ecuador 9869
 - storage, treatment 6368
 - taxonomy, nomenclature 3634

Tamarinds

- products, antioxidants 11027
- yields, correlation 10026
- Tamarindus* (see also *Tamarinds*)
- Tamarix aphylla*, trichomes, cytology 7125
- Tamarixia*, control, of *Trioxa eugeniae*, *Syzygium paniculatum* 4431
- Tanacetum cinerariifolium*
 - cultivars, altitude 9844
 - plant growth regulators
 - chlormequat, responses 7153
 - daminozide, responses 7153
 - ethephon, responses 7153
- Tanacetum coccineum*, herbicides, injuries 6085
- Tanacetum vulgare*, nutrients, uptake, soil 2565
- Tangelos
 - disease control, *Alternaria alternata* 3593
 - disorders, blight 9888
 - fruits
 - composition 2618
 - development
 - biochemistry 2618
 - plant growth regulators 2618
 - leaves, colour, measurement 6320
 - pest control, *Bactrocera tryoni* 10865
 - storage
 - disease control 6341
 - pest control 10865
 - physiology 6341
- Tangerines (see *Mandarins*)
- Tangors (see also *Ortaniques*)
 - cultivars, characteristics, Japan 9872
 - flowers, thinning, responses 5397
 - fruits, cracking, cultural methods 5397
 - in vitro* culture, somatic embryogenesis 7218
 - pest control, *Bactrocera tryoni* 10865
 - storage, pest control 10865
- Tannins
 - biochemistry, persimmons 10897
 - characterization
 - grapes 6716
 - Haematoxylum campechianum* 8896
 - tea 5516
 - composition
 - Amaranthus* 4257
 - Annona coriacea* 8110
 - apples 5633
 - apricots 9244
 - persimmons 4561
 - strawberries 252
 - deposition, *Castanea* 2939
 - extraction, grapes 310
 - metabolism
 - cultural methods, *Pyrus bretschneideri* 6633
 - development, plums 9326
 - handling, persimmons 9917
 - nitrogen, tea 5512
 - physiology, grapes 3988
 - ripening, plums 9326
 - utilization, persimmons 5439
- Tanzania
 - Agave sisalana*, production 2534, 4446
 - Allium*, production 5804
 - bananas, production 5453
 - coconuts, cultivars 2687
 - edible fungi, surveys 2332
 - ethnobotany 2332
 - tea, cultivars 10005
- Taphrina deformans*
 - fruit crops 7479
 - nectarines 3867
 - peaches 3867, 7447, 9295
 - stone fruits 9163
- Taphrina pruni*, fruit crops 7479
- Tapinoma nigerimum*, apples 2899
- Taraxacum*, as weeds, lawns and turf 3443
- Taraxacum mongolicum*, as weeds, lawns and turf 8802
- Taraxacum officinale*
 - as weeds
 - apples 1949, 8269
 - carrots 7834
 - lawns and turf 6146
 - pears 1949
 - seedlings, emergence, tests 7179

Taraxacum officinale cont.

seeds

- germination
- light 7179
- storage 7179
- temperature 7179
- tests 7179

sowing, depth 7179

Taxillus chinensis, as weeds, *Hevea* 6445**Taxonomy**

anatomy

- Camellia* 711
- Jasminum* 1625
- longans 10877
- Orchidaceae 7054

chemotaxonomy

- Acmella oppositifolia* 6273
- Alepidaea* 4453
- Allium* 8512
- Aloe scabrifolia* 9734
- Aloe turkanensis* 9734
- apples 3761
- Arnica amplexicaulis* 5333
- Arnica lanceolata* 5333
- Cactaceae 6155
- Campanulaceae 4450
- Carica quercifolia* 9990
- chestnuts 6605
- Citrus* 820, 8937-8939
- Clerodendrum* 2496
- Datura* 4457
- Erodium* 2546
- Fabaceae 3194
- Fortunella* 8937
- Fumariaceae 2536
- grapes 5743, 7596
- Heliopsis longipes* 6273
- Jovibarba heuffelii* 4359
- Lactuca* 8528
- Liliaceae 5155
- Litchi* 6348
- longans 6348
- Origanum vulgare* 5317
- Papaveraceae 2536
- pawpaws 9990
- peas 7752
- Peucedanum* 6288
- Phaseolus* 8588
- Physostegia virginiana* 4314
- Piper* 748
- Poncirus* 8937
- Pyrus* 7532
- Ribes* 1189
- Rosaceae 4387
- Scabiosa* 8927
- Sedum* 4359
- Sempervivum* 4359
- Spirospermum penduliflorum* 5344
- Strychnopsis thoursii* 5344
- Teucrium* 10802
- Thapsia villosa* 5323
- Trigonella* 8928
- Vicia faba* 5951
- Vigna aconitifolia* 8588
- Vitis* 5743

cytology, *Citrus* 3582

cytotaxonomy

- Bupleurum* 9849
- Citrus* 4491, 8939
- Fortunella* 4491
- Lactuca* 8529
- Morchella* 2361
- Poncirus* 4491
- Prunus* 64
- walnuts 2984

ethnobotany, *Metroxylon* 976

keys

- Agaricus* 9628
- Alchemilla* 1547
- Bauhinia* 7105
- Bucephalandra* 678
- Encyclia* 7057
- Liliaceae 8784
- Maxillaria hedwigae* 7062
- Orchidaceae 2437
- Scutellaria* 772
- Thymus* 1677
- Trichocentrum* 706
- Zingiberaceae 7149

morphology

- Asparagus* 6877

Taxonomy cont.

morphology cont.

- chestnuts 6604
- Citrus* 3582, 8939
- Codonopsis* 3410
- Corybas orbicularis* 8836
- Cucumis* 3161
- Cyrtanthus* 5206
- Cyrtanthus elatus* 5206
- grapes 8436-8437
- Gypsophila* 2392
- Hedera helix* 1623
- Helleborus* 614
- Hypericum uralum* 3507
- Ipomoea* 7167
- Macroclinium* 7060
- Meconopsis integrifolia* 8778
- Meconopsis pseudointegrifolia* 8778
- Nectaroscordum siculum* 661
- Nymphoides indica* 7915
- Odontoglossum cruentum* 6177, 7938
- Odontoglossum epidendroides* 2448
- Orchidaceae 3458, 4370
- Petunia integrifolia* 607
- Pogostemon* 5321
- Prasophyllum* 7065
- Pseudorchis albida* 9764
- Pseudorchis straminea* 9764
- Pyrus* 3886
- Selenicereus megalanthus* 1771
- Sideritis cardica* 8018
- Symphoricarpos* 8886
- Thymus* 1677
- Thymus syriacus* 8018
- Vitis* 4900
- Yucca linearis* 9750

new taxa

- Agave filifera* 1589
- Allium turcicum* 2400
- Aloe diolii* 1590
- Archivea kewensis* 9757
- Bellevia anatolica* 2400
- Brachystelma bikitaensis* 5229
- Brachystelma maritae* 7043
- Bucephalandra catherineae* 678
- Bulbine caput-medusae* 5232
- Bulbine francescae* 5231
- Bulbine hallii* 5232
- Bulbine pendens* 5231
- Bulbine vitrea* 5231
- Camellia achrysantha* 6189
- Camellia xifongensis* 6188
- Chelonistele laetitiae-reginae* 9760
- Corybas iridescens* 8836
- Corybas papa* 8836
- Crocus biflorus* 1560
- Cyrtopodium* 2454
- Dryadella silvana* 2446
- Encyclia racemifera* 7057
- Euphorbia forolensis* 5239
- Euphorbia versicolores* 1592
- Forsythia viridissima* 1646
- Hebe tairawhiti* 8880
- Iris* 1565
- Lepanthes* 700
- Macroclinium allenorum* 7060
- Masdevallia* 3463
- Maxillaria dressleriana* 7062
- Maxillaria moralesii* 7062
- Meconopsis integrifolia* 6116
- Meconopsis pseudointegrifolia* 6116
- Muscari anatolicum* 2400
- Odontoglossum tenuifolium* 9762
- Opuntia* 10678
- Orchidaceae 693, 9753
- Ornithocephalus torresii* 10711
- Passiflora quadrifaria* 7977
- Pittosporum* 1654
- Pleurothallis barthelemyi* 2451
- Prasophyllum paulinae* 7065
- Rhododendron sarcodes* 1629
- Roscoeia ganeshensis* 3440
- Trichocentrum* 706
- Vanilla barreraeana* 2453
- Vanilla porteresiana* 2453
- Yucca declinata* 5249
- Zeuxine debrajiana* 9766

nomenclature

- Achillea erba-rotta* 5329
- Aloe candelabrum* 10680
- Aloe chrysostachys* 9733

Taxonomy cont.

nomenclature cont.

- Aloe ferox* 10680
- Aloe meruana* 9733
- Anthriscus* 2516
- Artemisia genipi* 5329
- Centaurea rothrockii* 3408
- Cereus kroenleinii* 6157
- Cimicifuga foetida* 3543
- Codonopsis grey-wilsonii* 8764
- Codonopsis nepalensis* 8764
- Cotoneaster bradyi* 2497
- Cyphomandra* 3634
- Cyrtopodium poecilum* 6174
- Daboecia* 8849
- Ficus macrophylla* 7969
- Ficus magnolioides* 7969
- Fritillaria chitralensis* 3437
- Juniperus communis* 5329
- Monvillea kroenleinii* 6157
- Muscari armeniacum* 8794
- Orchidaceae 998, 7056, 9758
- ornamental plants, books 3699
- Pelargonium reniforme* 5174
- Plectrocephalus rothrockii* 3408
- Rhipsalis* 9747
- Sasa* 10742
- strawberries 7579
- Urginea undulata* 1578
- Viburnum opulus* 2515
- Yucca linearis* 9750
- Zingiberaceae 7149

numerical taxonomy

- Armeria maritima* 2390
- chestnuts 6604
- Prunus* 5634

reviews, books, *Allium* 5532

revisions

- Allium* 2410
- Aster novi-belgii* 6108
- Cereus kroenleinii* 6157
- Cirrhopetalum* 4373
- Cyrtanthus elatus* 5206
- Delphinium* 6133
- Meconopsis integrifolia* 6116
- Meconopsis pseudointegrifolia* 6116
- Monvillea kroenleinii* 6157
- Nelumbo* 7037
- Papaver ramosissimum* 9690
- Papaver rhoeas* 9690
- Pseudorchis albida* 9764
- Pseudorchis straminea* 9764
- Scutellaria* 772

typification

- Corybas rivularis* 8836
- Orchidaceae 7056

Taxus baccata, fertilizers 6187**Tea**

- allelopathy 7355
- altitude, responses 9090
- buds, dormancy, plant growth regulators 6457
- climate
 - China 6454
 - microclimate 2755, 7352
 - requirements 5510
- conferences 3709
- cover crops, responses 953
- cropping systems
 - agroforestry 2755, 9135
 - intercropping 2756, 6441, 10008
- cultivars
 - assessment
 - China 3684
 - Japan 9088
 - Kenya 3685, 7351
 - Malawi 9087
 - Tanzania 10005
 - biochemistry 2767
 - composition 6460
 - disease resistance 6451
 - identification 10004
 - quality 952
- cultural methods, economics 10009, 10013
- cuttings
 - sources, assessment 2753
 - types, assessment 2752
- disease control
 - Armillaria* 8052
 - Gloeosporium theae-sinensis* 3688

Tea cont.

- disease control *cont.*
 - Guignardia camelliae* 3688
 - India 11009
- dormancy, biochemistry 8167
- drought
 - injuries 7353
 - resistance, cultivars 10005
 - responses 8166
- fertilizers 2758, 9095-9096, 10013
 - copper 6456
 - nitrogen 953, 956-957, 3686-3687, 5512-5514, 6453, 8166, 9092, 11006
 - phosphorus 11006-11007
 - potassium 8166, 11006
 - selenium 6455
 - zinc 10014
- flowers, anatomy 711
- frost, injuries 2754
- grafting, techniques, responses 10006
- grubbing, techniques 10009
- handling, injuries 10017
- harvesting, techniques, mechanical harvesting 9099
- humidity, responses 9090, 10007
- in vitro* culture
 - culture media 10016
 - metabolites, production 10016
 - plant embryos 11001
 - somatic embryogenesis 1847, 4644
 - storage 9089
- insecticides, residues 1852
- intercropping
 - Crotalaria* 10008
 - groundnuts 10008
 - Hevea* 6441
 - Phaseolus vulgaris* 10008
 - Pyrus* 2756
 - Stylosanthes* 10008
- leaves
 - abnormal development 2762-2763
 - anatomy 7361
 - biochemistry 1773, 7363
 - cropping systems 2755
 - cultivars 2767
 - composition 964, 2770, 4648, 4650, 5516, 6459, 6461-6462, 7363, 9102
 - reviews 7368
 - development, biochemistry 11012
 - flavour, biochemistry, reviews 7369
 - injuries, fertilizers 9095
 - quality
 - assessment 4647
 - fertilizers 11007
 - maturity 4649
 - seasonal variation 9098
 - temperature 10017
 - spectral data 2762
- mulching
 - materials 7357, 10010
 - responses 10008
- mycorrhizas 955
- nutrients
 - requirements, assessment 9094
 - uptake
 - fertilizers 6456
 - mycorrhizas 955
- pest control
 - Aphididae 962
 - Darna trima* 2760
 - Dasychira baibarana* 8163
 - Dictyophara patruelis* 10015
 - Empoasca pirusuga* 8164
 - Euwallacea fornicatus* 1849, 3689
 - Helopeltis theivora* 11011
 - Lygus spinolae* 961
 - Myllocerinus aurolineatus* 8165
 - Oligonychus coffeae* 2759
 - Pochazia guttifera* 10015
 - Pseudaulacaspis pentagona* 1850
 - Ricania marginalis* 10015
 - Ricanula sublimata* 10015
 - Scirtothrips kenyensis* 9097
 - Sivaloke damnosus* 10015
 - Tetranychus urticae* 11010
 - Thysanoptera 2759
- pesticides, residues 2761, 11013
- photosynthesis
 - assessment 4646, 7362

Tea cont.

- photosynthesis *cont.*
 - reviews 2764
- plant
 - biochemistry 1851
 - seasonal variation 2766
 - canopy
 - photosynthesis 4646
 - physiology 7362
 - composition 960
 - development
 - climate 9090
 - models 963
 - plant extracts, application, *Tradescantia albiflora* 7916
 - plant growth regulators
 - abscisic acid
 - metabolism 8167
 - responses 6457
 - benzyladenine, responses 6457
 - Biozyme, responses 2765
 - gibberellic acid, responses 6457
 - NAA, responses 6457
 - triacanolol, responses 2765
 - plant nutrition
 - aluminium 4645, 7359
 - calcium 958, 7359
 - iron 4645
 - magnesium 958
 - manganese 4645
 - molybdenum 11008
 - nitrogen 7358, 11008
 - sulfur 959
 - surveys, Japan 5513
 - zinc 10014, 11008
 - plant residues, utilization, disease control 753
 - planting, spacing 6453
 - plucking 2769, 7360, 9100-9101
 - pollen, morphology 7361
 - pollution, fluorine 7354
 - processing
 - automation 7365
 - quality 10018
 - assessment 6460, 7367
 - biochemistry, reviews 7364
 - cultivars 964, 9103
 - plant nutrition 958-959
 - soil 9103
 - production 951
 - history 6530
 - pruning
 - responses 7360, 9093
 - seasons 9093
 - systems
 - assessment 10011
 - root pruning 9092
 - regeneration
 - economics 5511
 - pruning 10011
 - replanting 1848, 5511, 11004
 - topworking 5511
 - replanting
 - cultural methods 953
 - economics 954
 - seasons 11004
 - reports, Kenya 2804
 - research 951
 - China 1851, 2764
 - Kenya 6450
 - rhizosphere, microorganisms 11005
 - roots
 - biochemistry, plant nutrition 7359
 - composition 4650
 - rootstock scion relationships
 - quality 6452
 - yields 6452
 - seeds
 - germination
 - plant growth regulators 11003
 - seed treatment 11002
 - storage
 - physiology 2668
 - systems 11001
 - viability, moisture content 11001
 - shade, responses 7360
 - shoots
 - composition 4650
 - development
 - cultural methods 2758
 - physiology 7360

Tea cont.

- shoots *cont.*
 - mechanical properties, assessment 9100
 - physiology 6458
- storage, biochemistry 7366
- surveys, Sri Lanka 7350
- taxonomy, anatomy 711
- translocation
 - measurement 2765
 - source sink relations 5515
- weed control 2757, 7356, 9091, 10010
- yields, pests 3690
- Technetium**, uptake, vegetables 6730
- Technomyrmex albipes**, *Alpinia purpurata* 653
- Telfairia occidentalis**
 - fertilizers
 - nitrogen 10469
 - phosphorus 10469
 - potassium 10469
- Telopea**
 - cultivars
 - characteristics, Australia 9642
 - ornamental value 9812
- Telopea speciosissima**, cultivars, ornamental value 9812
- Temperate fruits**
 - conferences 2801, 4669
 - cover crops, cultural methods 2842, 8234
 - cultivars, characteristics, USA 2810
 - cultural methods, books 6470
 - disease control
 - Italy 6532
 - Monilinia* 4721
 - Phytophthora* 4722
 - flowering, books 7389
 - flowers
 - initiation
 - physiology 71
 - plant growth regulators, reviews 1924
 - fruits
 - composition 10069
 - development, assessment 8238
 - set, physiology 71
 - thinning, plant growth regulators 6534
 - green manures 2842
 - marketing, Switzerland 4714
 - mulching, economics 1058
 - mycorrhizas, reviews 1920
 - organic culture 4714, 4721
 - pest control
 - Acari 1922
 - Carposina sasakii* 67
 - Italy 6532
 - Lepidoptera 67
 - Panonychus ulmi* 2846, 6533
 - Quadraspidiotus perniciosus* 1923
 - plant nutrition
 - conferences 2802
 - nitrogen, reviews 2823
 - Turkey 9150
 - planting stock, production, Poland 1919
 - pollination
 - books 7389
 - compatibility 7448
 - pollinators, Apidae 8236
 - production
 - Brazil 6488
 - surveys 1918
 - Switzerland 4714
 - USA 4712
 - production possibilities
 - Argentina 7403
 - Malaysia 9130
 - reports
 - Australia 7401
 - Japan 10058
 - Netherlands 5550
 - research
 - China 1920
 - USA 63
 - roots, development, temperature 4716
 - rootstock scion relationships
 - flowering 78
 - fruiting 78
 - growth 78, 3746
 - quality, reviews 4498
 - yields 3746

Temperate fruits *cont.*

- rootstocks
 - mulching 3743
 - propagation, reviews 3745
- soil management, systems 1058, 5585
- soil pH, responses 7443
- staking, materials 10087
- surveys, Netherlands 1891
- weed control 1058, 4718
- yields
 - forecasting 2848
 - models 2848

Temperature (*see also* Cold; Frost; Heat; Soil temperature)

biochemistry

- Capsicum* 482
- Epipremnum pinnatum* 5238
- Erythroxylum* 8922
- lettuces 4079
- Ocimum basilicum* 6266
- olives 2653
- spinach 5238
- tomatoes 4234

bolting, leeks 4953

bruising, apples 8313

cytology

- leeks 3087
- onions 2138

development

- apples 6576, 10128
- Asparagus* 3224, 5066
- Begonia cheimanthus* 5194
- Begonia hiemalis* 628
- broccoli 1339
- Camellia* 3474
- Campanula isophylla* 7873
- cauliflowers 5861
- chrysanthemums 1541, 6094
- cucumbers 3190
- Eustoma grandiflorum* 4299
- grapes 9399
- Gypsophila paniculata* 4303
- Heliconia psittacorum* × *Heliconia spathocircinata* 7029
- Hydrangea macrophylla* 3481
- lemons 2613
- Opuntia ficus-indica* 5444
- Pelargonium hortorum* 4289
- Petunia* 4293
- pot plants 10611
- radishes 5884
- Ribes* 3004
- roses 1634, 6198
- small fruits 4716
- temperate fruits 4716
- tomatoes 5115

diseases, carnations 6088

disorders

- Asparagus* 5988
- cucumbers 418

dormancy

- Freesia* 8786
- kiwifruits 216-217
- Leucospermum* 3508
- satsumas 836

enzyme activity, oil palms 7344

flowering

- Achillea millefolium* 9677
- Allium unifolium* 10653
- apples 10142
- apricots 9246
- Camellia* 3474
- chicory 4981
- Clivia miniata* 7027
- Delphinium* 5182
- Dendrobium* 3460
- Freesia* 8786
- Ixodia achillaeoides* 7112
- kiwifruits 216-217
- Leucanthemum vulgare* 4308
- Lilium speciosum* var. *rubrum* 7899
- Litchi* 857, 2635
- mangoes 857, 9056
- olives 5429, 10885
- Opuntia ficus-indica* 6367
- Ornithogalum arabicum* 3439
- pears 6631
- Pimelea ferruginea* 7980
- plums 7549
- Ribes* 3004
- satsumas 836

Temperature *cont.*flowering *cont.*

- Senecio hybridus* 3420
- strawberries 3024-3025, 3946, 6677
- forcing, *Asparagus* 5061, 5989
- fruiting

- apples 10142-10143
- grapes 5764
- mandarins 10856
- oranges 10856
- strawberries 3024-3025, 3946

germination

- Abelmoschus moschatus* 8900
- Capsicum* 7772
- celery 2329
- Chamaedorea* 5233
- cucumbers 5015
- lettuces 4986
- Lupinus harvardii* 5187
- Nigella sativa* 9855
- olives 4547
- Phaseolus vulgaris* 420
- Taraxacum officinale* 7179

growth

- Agaricus bitorquis* 3346
- Agave deserti* 7041
- Chinese cabbages 6783
- chrysanthemums 6095
- Clivia miniata* 7027
- Encelia farinosa* 7041
- Erythroxylum* 8922
- grapes 3985, 7628
- lawns and turf 6139, 10676
- mangoes 4630
- mushrooms 3346
- onions 5826
- Pelargonium* 8906
- Pleurrotus* 10591
- pomegranates 8995
- vegetables 9425

handling, cherries 7521, 7523

harvesting date, cucumbers 5924

histology, grapes 5763

in vitro culture, *Lilium japonicum* 10647

injuries, bananas 9006

measurement, lawns and turf 6153

models

- cauliflowers 5861
- Lilium longiflorum* 6129
- monitoring, *Citrus* 6318

photosynthesis

- cabbages 5872
- peas 10505
- satsumas 832
- tomatoes 5110

physiology

- apples 1101
- cucumbers 7740
- Eranthis hyemalis* 2411
- Hibiscus rosa-sinensis* 1649
- Kalanchoe daigremontiana* 5241-5242
- peaches 10212
- Phaseolus vulgaris* 2234, 9523
- satsumas 1737, 3605
- tomatoes 5130, 6025, 8685
- Vicia faba* 4167

plant nutrition

- mangoes 4630
- Phaseolus vulgaris* 422
- vegetables 5772

- pollen germination, *Hippeastrum vittatum* 2414
- quality
 - Asparagus* 10514
 - broccoli 9473
 - lettuces 2173
 - tea 10017

reproduction, tomatoes 7821

responses

- grapes 10320
- lawns and turf 4355

ripening

- apples 1114, 4782, 6580
- durians 2775
- grapes 5765
- kiwifruits 222, 9338
- mangoes 924
- tomatoes 6946

soil management, grapes 7612

sprouting, *Freesia* 8786**Temperature** *cont.*

storage

- garlic 329
- mandarins 7226
- tomatoes 6036, 7831

surveys

- limes 9871
- oranges 9871

translocation

- Alstroemeria* 10654
- peas 10505

vase life, chrysanthemums 5172

yields, Chinese cabbages 6783

Tendrils, movement, magnetism, cucumbers 8584**Tephrosia purpurea**, roots, biochemistry 10801**Terfezia boudieri**, composition 10601**Terfezia calveryi**, mycorrhizas,*Helianthemum almeriense* 3372**Terminalia bellirica**, grafting, techniques,

assessment 7180

Terminalia catappa, wild plants, utilization,

Vanuatu 10904

Terminalia chebula, grafting, techniques,

assessment 7180

Terminalia sericocarpa, wild plants, edible

species 1018

Termitomyces, composition 8722**Termitomyces albuminosus**, mycelium,

growth 8736

Terpenoids

biochemistry, tea 7369

biosynthesis

Mentha piperita 754*Nicotiana glutinosa* 4462

characterization

Adiantum raddianum 8817*Canarina canariensis* 8763

composition

apples 1980

Areaceae 1857

Brugmansia candida 10729*Bupleurum falcatum* 1680*Bupleurum kaioi* 1680*Calanthe* 10698*Citrus sudachi* 4533, 4535*Daphne mezereum* 6216

grapefruits 4535

grapes 1256, 2100

Grindelia tarapacana 1702*Landolphia heudelotii* 8034*Landolphia senegalensis* 8034*Magnolia* 8851*Maytenus aquifolium* 5341

natsudaids 4533

Nephrolepis biserrata 5221*Ocimum* 8015

rhubarb 467

Sauromatum guttatum 7885*Spondias dulcis* 3695

emission, ornamental woody plants 8842

metabolism

flowering, essential oil plants 10756

in vitro culture, chicory 359photoperiod, *Origanum majorana*

3526

processing, grapes 4000

ripening

grapes 4000

Pyrus ussuriensis 10242

seasonal variation, tea 9098

storage

apples 5629

Azadirachta indica 10771

grapefruits 6340

nectarines 185

peaches 185

temperature, spinach 3107

ultrastructure

Dracocephalum moldavica 3525*Nepeta cataria* 3525**Tessaratoma papillosa**, *Litchi* 7234**Tetracarpidium conophorum**

nuts

mechanical properties, assessment

1858

moisture content 1858

Tetralonia nipponensis, pollinators, *Bletilla**striata* 6168**Tetramicra**, books 7392

Tetranychidae

apples 6564
cherries 3815
cucumbers 2307
tomatoes 2307

Tetranychus, fruit crops 7484**Tetranychus cinnabarinus**

cucumbers 1362
okras 6891, 9555
tomatoes 1362

Tetranychus kanzawai

aubergines 7784
grapes 4925, 7598
peas 3214

strawberries 2067, 3021

Tetranychus neocaledonicus, okras 9555**Tetranychus pacificus**, grapes 1244**Tetranychus urticae**

apples 2891
aubergines 7784
black currants 8403-8404
control, of *Neoseiulus fallacis*, hops 8908
cucumbers 2831, 5902
Gerbera 7867
grapes 9412
hazelnuts 1140
hops 1678
melons 3670
pome fruits 66
raspberries 1193
roses 727, 2831, 5268, 5272, 6201
strawberries 1211, 1213, 2831, 3021, 5734, 5902, 10298
tea 11010

Tetranychus viennensis

apples 115
peaches 1150

Tetrastichus giffardianus, control, of *Bactrocera dorsalis*, guavas 917**Tetrastigma voinierianum**, plant water relations, physiology 5248**Teucrium**, taxonomy, chemotaxonomy 10802**Thailand**

Allium, production 5807
Asparagus, surveys 1402
bamboos, production 4262
Dunaliella salina, cultivars 778
Hevea
production 1843
production possibilities 9066
Litchi, production 2632
Panax pseudoginseng
climate 4464
production possibilities 4464
tomatoes
cultivars 3252
production 4203

Thalictrum delavayi, cut flowers, preservatives 10635**Thalictrum flavum**, leaves, ultrastructure 1686**Thapsia villosa**, taxonomy, chemotaxonomy 5323**Thaumatococcus daniellii**, products, sweet tasting compounds 4474**Thea** (see also *Tea*)**Theobroma** (see also *Cocoa*)**Theobroma grandiflorum**

disease control, *Crinipellis pernicios*
10027-10028
mycorrhizas 877

Thevetia peruviana, plant, composition 7947**Thielaviopsis basicola**

carrots 9623
lettuces 367

Thinning, responses, grapefruits 4523**Thiobacillus thiooxidans**, soil inoculation, guavas 6425**Thiophenes**

composition, *Rudbeckia hirta* 5191
exudation, *Tagetes patula* 4449

Thladiantha grosvenorii, *in vitro* culture, propagation, micropropagation 8043**Thripidae**

Capsicum 10529
tomatoes 2299

Thrips palmi

aubergines 484, 1271
cucumbers 8577
Cucurbita pepo 1271

Thrips palmi cont.

Dendrobium 2443
Phaseolus vulgaris 1271
watermelons 8577

Thrips simplex, apples 2903**Thrips tabaci**

apples 2903
cucumbers 6824
garlic 1277, 7654
Gerbera 7867
leeks 341, 7664
melons 3670
onions 341, 2125, 3095, 3097, 4962, 6756, 9445-9446

Thryptomene, production possibilities, Australia 7126**Thryptomene calycina**

cut flowers, production, Australia 7126
reproduction, biology 7126

Thuja

pest control
Coleoptera 1622
Pratylenchus penetrans 8847

Thuja occidentalis

fertilizers 7950
growing media, pH 6081
planting stock, production, containers 7950

Thuja plicata

planting stock, production, cultural methods 3477
soilless culture, plant nutrition 3477

Thunbergia grandiflora, plant, composition 8781**Thymus**, taxonomy, morphology 1677**Thymus bornmuelleri**, plant, anatomy 9836**Thymus capitatus**

ecology, Greece 1670
seeds
germination
inhibitors 1670
light 1670
temperature 1670

Thymus longicaulis, plant, anatomy 9836**Thymus praecox**, plant, anatomy 9836**Thymus syriacus**, taxonomy, morphology 8018**Thymus thracicus**, plant, anatomy 9836**Thymus vulgaris**

manures 3520
nutrients, uptake, humates 751
photosynthesis, light 3530
plant
biochemistry, light 3530
development, light 4445
soilless culture
nutrient solutions
composition 751
pH 751
water stress, responses 4445

Thysanoptera

apples 2903
bedding plants 7860
Capsicum 4195
carnations 6995
Gladiolus 8787
horticultural crops, conferences 7396
nectarines 2963
tea 2759

Tibouchina urvilleana, flowers, ultrastructure 1657**Tilia**, pollution, exhaust gases 9860**Tilia cordata**

cultivars, characteristics, USA 9768
in vitro culture, propagation, micropropagation 4432
salinity, injuries 2469

Tilia europaea

roots, development, plant growth regulators 7073
salinity, injuries 2469

Tilia mongolica, cultivars, characteristics, USA 9768**Tilia platyphyllos**

grafting, scions, assessment 5259
leaves, physiology 10070

Tillage

depth
Asparagus 5990
olives 8099
oranges 4500

Tillage cont.

minimum tillage
Cucurbita pepo 8565
grapes 3969
no-tillage, broccoli 9476
responses
apples 7466
cabbages 2184
tomatoes 8660

Tillandsia

cultural methods, UK 674
species, ornamental value 1587

Tillandsia fasciculata, plant, biochemistry 8226**Tinocallis ulmifolii**, *Ulmus* 6237**Tiphia femorata**, control, of *Phyllopertha horticola*, lawns and turf 10673**Tipularia discolor**

photosynthesis, seasonal variation 7069
translocation, seasonal variation 7069

Tirmania nivea, composition 10601**Titanium**

composition, bananas 9935
responses, *Capsicum* 5996, 7775, 8626

Tobacco mosaic tobamovirus, tomatoes 1429**Tobacco rattle tobavirus**, tulips 1568**Tobacco ringspot nepovirus**, *Lagenaria siceraria* 5890**Togo**, coconuts, production 1797**Tolumnia variegata**, reproduction, biology 7944**Tomato ringspot nepovirus**, *Lagenaria siceraria* 5890**Tomato spotted wilt tospovirus**

Capsicum 4190
tomatoes 1314, 7787

Tomato yellow leaf curl bigeminivirus, tomatoes 515-516, 1450**Tomatoes**

allelopathy 1266
circadian rhythm 8681-8682
climate, microclimate 2295
cold
injuries 4237
resistance, plant growth regulators 8208
responses 546, 3308, 4017, 5025
tolerance 4145, 9432
conferences 5542
cooling, techniques 8079-8080
cover crops, responses 500, 7806, 9424
cropping systems
intercropping 3263, 4214, 7798
rotations 3262, 5901
sequential cropping 510
cultivars
assessment
Brazil 6006, 7405, 7787
Canada 501
China 3253
Colombia 7642
Cuba 3255, 5086
Egypt 6907
France 9573
India 488-489, 5084, 10538
Italy 6004-6005
Jordan 10537
Papua New Guinea 4202
Switzerland 1427, 6908
Thailand 3252
USA 5085
characteristics
China 1429-1431
Japan 10541
Russia 1432
USA 1433-1436, 6910-6912
classification 5087
disease resistance 1429, 1433-1436, 4204, 4249, 7787, 8646
disorders 6909, 7789
flowering date 5087
herbicides 3261
in vitro culture 7793
ornamental value 1436
pest resistance 4082, 4205, 7788, 8647
plant nutrition 4224
precocity 5087
protected cultivation 498
ripening 8650

Tomatoes cont.

cultivars cont.

- salinity 513, 6017, 9572
- sowing date 8649
- temperature 531, 3254, 4251, 6907
- cultural methods, Switzerland 6922
- defoliation, responses 497
- disease control
 - Alternaria alternata* 527
 - bacteria 7808
 - Botrytis cinerea* 1048, 6947
 - Clavibacter michiganensis* subsp. *michiganensis* 1451, 3287
 - Corticium rolfsii* 8677
 - Fulvia fulva* 7811
 - fungi 2305, 7808
 - Fusarium oxysporum* f.sp. *lycopersici* 1452, 5106, 6018, 6930
 - Fusarium oxysporum* f.sp. *radicis-lycopersici* 3290, 7812, 10552
 - Italy 6929
 - Phytophthora infestans* 3289
 - Phytophthora nicotianae* var. *parasitica* 6019
 - phytoplasmas 7808
 - Pseudomonas solanacearum* 517, 7809
 - Pseudomonas syringae* pv. *tomato* 5105
 - Pyrenochaeta lycopersici* 518
 - Pythium* 6010
 - Pythium ultimum* 6930
 - Pythium ultimum* var. *ultimum* 7810
 - Rhizoctonia solani* 1437
 - tomato spotted wilt tospovirus 1314
 - tomato yellow leaf curl bigeminivirus 515, 1450
 - viruses 7808
 - Xanthomonas campestris* pv. *vesicatoria* 5105
- disorders
 - blossom-end rot 498, 514, 1444, 2304, 3286, 4227-4228, 6031, 6927, 7789, 8676, 9589
 - chilling injury 2317, 3308, 4251, 5130-5131, 6038, 6947, 7800, 10564
 - gold speck 3278, 3286
 - puffiness 10562
 - sunscauld 6909, 6920
- drought, responses 5089, 9602
- economics
 - Argentina 3723, 4212
 - Canada 8492
 - Germany 5767
 - Italy 486
 - UK 1258
 - USA 487, 1478
- electricity, responses 9606
- fertilizers 8655, 8674
 - calcium 4225, 6926-6927, 7800
 - manganese 6738
 - nitrogen 491-492, 510, 2303, 3262, 3276, 3278, 4225, 5085, 5098-5100, 5125, 6016, 6024, 6924-6926, 8643, 8672, 8818, 9595, 9597, 10549
 - phosphorus 510, 3276, 3281, 4223, 5125, 6925, 6927, 8672, 9595
 - potassium 502, 510, 3276, 3283, 4225, 4944, 5100, 5125, 6024, 6926, 7800, 7807, 8660, 8672, 9595
 - sulfur 9597
 - trace elements 5100
 - zinc 510
- flooding, responses 5111-5112
- flowers
 - abscission, biochemistry 1464
 - biochemistry, genetics 1474
 - development, temperature 7821
- frost, injuries 4588
- fruits
 - abscission, physiology 5577
 - biochemistry 1470, 2315, 5122, 6030, 8501
 - analysis 541
 - salinity 3282, 5101
 - temperature 546
 - bruising, assessment 10574

Tomatoes cont.

fruits cont.

colour

- assessment 6951, 9616
- models 10567
- mutants 10563
- plant nutrition 10563
- soilless culture 9616
- storage 544, 9616-9617, 10566-10567
- composition 536, 547-549, 5124, 6939, 7832
- cracking
 - cultivars 503
 - cultural methods 3305
 - irrigation 503
- development
 - biochemistry 4246, 5124, 7825, 9611
 - models 5109
 - plant nutrition 8690
 - plant water relations 1472
 - temperature 7821
 - water relations 3307
- flavour
 - biochemistry 4250
 - cultural methods 4253
- histology 8697
- in vitro* culture 4244, 7827
- maturity, cultural methods 6913
- mechanical properties
 - assessment 4245, 8696, 9616, 10573
 - histology 8697
 - measurement 6040, 6950, 8698, 9226
 - plant water relations 9226
 - ripening 6041
 - soilless culture 9226, 9616
 - storage 6040-6041, 9616-9617, 10566
- physical properties, fertilizers 4225
- physiology 1484, 2312, 2807
- quality
 - analysis 543
 - assessment 6948, 10566
 - cultivars 498, 545, 1427, 6031, 10537
 - cultural methods 4253, 6921
 - harvesting 542
 - irrigation 504, 6031
 - measurement 9157
 - mulching 504
 - plant growth regulators 1467, 9610, 10562
 - propagation 10542
 - protected cultivation 498
 - pruning 3268
 - ripening 537
 - salinity 4228, 8675
 - shading 537
 - spacing 3260
 - storage 543, 9615
 - water stress 3260, 3267-3268, 3310
- ripening
 - alcohols 5129
 - assessment 10574
 - biochemistry 536, 538, 540, 1468, 2314, 3304, 3306, 3308, 4247-4248, 4250, 5128, 5575, 6032, 6943-6945, 7822-7824, 7826, 8691, 10565, 10569-10571
 - carbon dioxide 7826
 - cultivars 4247, 8650, 9612, 10568
 - in vitro* culture 7827
 - light 6037
 - mutants 10563
 - pests 1476
 - physiology 539, 2313, 2317, 5129, 5131, 5577, 10568, 10572
 - plant growth regulators 539, 6032, 7431, 7827, 10570
 - plant nutrition 1473, 10563
 - storage 544, 2317, 5131, 6946, 7829, 9614, 9617-9618, 10566
 - stresses 2317
 - temperature 3308

Tomatoes cont.

fruits cont.

- senescence 2317
- set, plant growth regulators 9610
- size
 - cultural methods 4213
 - measurement 1479
- ultrastructure 1469
- vascular system 5103
- fungicides
 - determination 528
 - persistence 527
 - residues 3081, 6949
- grading, techniques 5581, 6948, 8230, 10573
- grafting
 - cultural methods 4935
 - responses 1426
 - unions, histology 4680
- green manures 6014, 7806, 8496, 9586
- growing media
 - amendments 2813
 - characteristics 51, 4216, 6923
 - composition 491, 2813, 10547
 - plant nutrition 9593
- hail, injuries 315
- handling, equipment 1475
- harvesting
 - equipment 2316, 6033, 6741
 - harvesting date, assessment 7831, 8692
 - techniques
 - mechanical harvesting 6034
 - once over harvesting 542
- heat
 - resistance, cultivars 1434, 6907
 - responses 7807, 9432
 - tolerance 531, 3254
- herbicides
 - determination 9583
 - injuries 1581, 5104, 9578
 - metabolism 3297
 - physiology 3299
 - responses 3082, 3720
 - tolerance 3071, 3261
 - toxicity 3298
- humidity, responses 9596
- hybrids, characteristics, USA 1428
- in vitro* culture
 - anthers 1466
 - biochemistry 535, 3303, 4239, 5120-5121, 8688
 - cell suspensions 5120-5121, 6940
 - reviews 7820
 - culture media 3302, 7793, 9420, 9608
 - explants, sources 9577
 - organogenesis 2291, 3258, 3303, 4244, 6028, 7793, 10360
 - propagation
 - micropropagation 1440, 9577
 - techniques 7794
 - protoplasts 2292
- responses
 - bicarbonates 3302
 - heavy metals 6029
 - salinity 4229, 9607, 10561
 - temperature 6029
 - somatic embryogenesis 4207
- insecticides
 - persistence 1460
 - responses 10556
- intercropping
 - Capsicum* 4214
 - maize 3263
 - Vigna unguiculata* 7798
- irrigation
 - carbon dioxide, application 8690, 9419
 - fertigation 6
 - frequency 3266
 - requirements
 - determination 4215, 5096, 5562, 6918-6919, 9585, 10546
 - reviews 10361
 - responses 503-504, 3265, 7801, 9584
 - systems 501, 6917, 7801, 9581
 - water
 - salinity 2298, 3266, 5101
 - sources 2111, 2298, 5773
- leaves
 - abscission, biochemistry 1464

Tomatoes cont.

leaves cont.

- biochemistry 1463, 4241, 10558
- light 5114
- ultraviolet radiation 6027
- water stress 1461
- composition 4243, 6939, 7819, 9433, 10559
- injuries
 - physiology 1263
 - pollution 5093
- physiology 534, 3296, 6935
- manures 3276, 4940, 8670
- mechanically induced stress, responses 1484, 5089
- mulching
 - materials 505-506, 2299-2300, 6920, 8662
 - responses 504-505, 1441, 1446, 3720, 6014, 6019, 8496, 8660-8661, 9424, 9586
- mutants, physiology 538, 2309, 3300, 4236, 5113, 5118, 10071
- mycorrhizas 3275, 8669, 8678, 9591, 10548, 10553, 10560
- nutrients
 - requirements, analysis 323-324
 - uptake
 - chromium 511
 - cultivars 8671
 - models 8683
 - rootstock scion relationships 5092
- nutrition, calcium 514
- organic culture 4210, 4253, 6011, 6914, 8661
- packing, techniques 5127
- parasitic plants, *Orobanchae aegyptiaca* 6013
- pest control
 - Aleyrodidae 2307
 - Aphididae 2307
 - Aphis gossypii* 7649
 - Aphis nasturtii* 7649
 - Bemisia argentifolii* 526, 5778, 6022
 - Bemisia tabaci* 525, 1426, 1456, 8680, 10555-10556
 - Hauptidia maroccana* 4231
 - Helicoverpa armigera* 9599, 10554
 - Helicoverpa zea* 6020
 - insects 7808
 - Keiferia lycopersicella* 10555
 - Lacanobia oleracea* 5107
 - Leptinotarsa decemlineata* 1458
 - Liriomyza* 10555
 - Liriomyza bryoniae* 1459, 4230
 - Liriomyza trifolii* 2308
 - Macrosiphum euphorbiae* 2308, 3285, 4946
 - Meloidogyne* 1455, 2306, 6931
 - Meloidogyne hapla* 8679
 - Meloidogyne incognita* 520-523, 1454, 4945, 5083, 5776, 6010, 6035, 8678
 - Meloidogyne javanica* 519, 1453, 6932
 - Myzus* 4946
 - Myzus persicae* 3285, 7649
 - Nematoda 524, 4945, 7808, 10553
 - Neoleucinodes elegantalis* 9600
 - Noctuidae 3147
 - Polyphagotarsonemus latus* 3285
 - Scrobipalpus absoluta* 6021
 - Spain 2116
 - Tetranychidae 2307
 - Tetranychus cinnabarinus* 1362
 - Trialeurodes vaporariorum* 1365, 1457, 2308, 3285, 3291-3292, 4232, 4946, 6023, 6933, 7814, 10367
 - USA 7813
- pesticides, residues 7421, 8695
- photoperiodism 8686
- photosynthesis
 - carbon dioxide 1462, 4234
 - cold 3295
 - light 5110
 - models 4233-4234
 - photoinhibition 9601
 - photoperiod 529, 8686
 - physiology 529
 - plant nutrition 10491

Tomatoes cont.

photosynthesis cont.

- soilless culture 10491
- temperature 531, 4234, 5110
- pinching, responses 3268
- plant
 - biochemistry 2310-2311, 5117-5118, 6937, 8687
 - carbon dioxide 1462
 - cultural methods 9604
 - salinity 10550
 - composition 548, 3301, 5119
 - development
 - apical dominance 10071
 - chromium 511
 - cultural methods 9604
 - models 533, 3706, 5109, 5115
 - salinity 10550
 - temperature 5115
 - plant competition 4213
 - plant growth regulators
 - brassinosteroids, responses 5097
 - 4-CPA, responses 4211
 - ethylene
 - metabolism 2312, 6026
 - physiology 7428
 - responses 4240
 - 2-KhEFK, responses 8212
 - metabolism 9605
 - NAA
 - absorption 6936
 - responses 5123
 - surfactants 6936
 - naphthoxyacetic acid, responses 4211
 - paclobutrazol, responses 6924, 8663, 9587
 - triconanol, responses 472
 - uniconazole, responses 8663
- plant nutrition
 - cadmium 8673
 - calcium 2304, 3282, 5101, 6017, 6928, 7789, 8676, 9589
 - chlorine 5101
 - chromium 511
 - copper 5113, 8672
 - iron 2309, 4226, 5113
 - magnesium 3282, 5101
 - manganese 5113, 9598
 - nitrogen 1447-1448, 4942, 5101, 6512, 7805, 8668
 - phosphorus 2309, 3282, 4942, 5101, 8669, 8676
 - potassium 1448, 3282, 4224, 4942, 5101, 6017, 7790, 9589
 - sodium 3282, 5101
 - sulfur 10491
 - zinc 512, 5113, 9598
- plant residues
 - utilization
 - feeds 8699
 - fodder 2119
- plant water relations
 - assessment 6025
 - flooded 5111
 - measurement 8684
 - physiology 1472, 2807, 4235
 - salinity 10550
 - soilless culture 7803
 - water stress 5094, 9602
- planting
 - depth 6913
 - planting date 489, 3266, 5084, 9613
 - spacing 489, 3259-3260, 3268, 5084
 - systems 1441
- planting stock, treatment 10553
- pollen
 - development, temperature 7821
 - storage 9609
- pollination, pollinators, *Bombus terrestris* 5123
- pollution
 - acid rain 1263
 - caesium 4937
 - heavy metals 493
 - hydrogen sulfide 9579
 - industrial wastes 7644
 - ozone 7795, 9578
 - polychlorinated biphenyls 6729
 - radionuclides 1442
 - sulfur dioxide 5093

Tomatoes cont.

processing

- cultivars 6004-6005
- quality, genetic transformation 8694
- residues 7832
- production
 - Colombia 10358
 - Saudi Arabia 6916
 - Thailand 4203
 - USA 4934
- production possibilities, Papua New Guinea 4202
- products, oils 10575
- propagation, techniques 10542
- protected cultivation
 - books 10
 - carbon dioxide 1038, 8659
 - cooling systems 1443
 - cultivars 1432, 8648, 10540
 - cultural methods 3496, 4213
 - disease control 3287, 3290, 6929, 7811-7812
 - economics 2297, 9581
 - equipment 1445, 7797
 - fertilizers 3279, 4219
 - heating systems 494, 497-498, 2296, 4212
 - irrigation 6917
 - light 532, 5116
 - microclimate 2295, 2297
 - models 5094
 - pest control 5777, 7649, 7814, 8679
 - pests 3291
 - plant nutrition 323
 - shading 496, 537, 1443-1444
 - systems
 - greenhouses 1456
 - high tunnels 1895
 - plastic tunnels 317, 6915, 9147
 - row covers 1446
 - temperature 4211
 - transpiration 5094
- pruning, systems, root pruning 8663
- rain, measurement 5770
- reports, Belgium 1884
- research, space science 7791
- respiration
 - photosynthesis 6942
 - ripening 2313, 8691
 - temperature 4017
- rhizosphere, microorganisms 4220
- roots
 - biochemistry 4246, 6938
 - nutrition 3293
 - composition 1465
 - cytology 6008
 - development
 - irrigation 9584
 - models 5108
 - salinity 5102
 - physiology 534, 4235, 5112, 8685
- rootstock scion relationships
 - growth 8656
 - physiology 10545
 - plant nutrition 5092, 7790
 - quality 8655
- rootstocks, disease resistance 5106
- salinity
 - responses 534, 1449, 2314, 4227, 4238, 5101-5103, 6007, 6017, 6026, 6941, 8675, 8689, 9591, 10550-10551
 - tolerance 513, 1896, 4229
- sap, composition 5124, 8668
- seedlings
 - composition 3302
 - development
 - measurement 490
 - soil amendments 3275
 - ultraviolet radiation 8581
 - emergence
 - seed treatment 1437
 - soil structure 1269
 - grafting, techniques 5091
- planting
 - age 4208
 - equipment 2276
- production
 - containers 2294
 - cultural methods 491-492, 905, 2290, 10544

Tomatoes *cont.*seedlings *cont.*production *cont.*

- energy requirements 6498
- growing media 5090, 7792
- labour requirements 6498
- protected cultivation 2293-2294

seeds

- biochemistry 552
- composition 7832, 10575
- germination
 - assessment 1438
 - biochemistry 1439, 3257, 6009
 - growing media 5090, 7792
 - physiology 4206, 8654
 - seed treatment 2289, 3191, 3257, 6008, 8652-8653, 10543
 - storage 8652-8653
 - temperature 9576
 - water stress 9576

physiology 1438

production

- cleaning 3191
- cultivars 3309
- cultural methods 5125, 9613
- extraction 5126

quality

- maturity 5126
- plant growth regulators 1467
- sowing, sowing date 3256, 8649
- storage, systems 7791
- treatment 2288, 3155, 3191, 6007, 7643, 8590, 8651, 9574-9575, 10543

vigour, tests 5088

shade, responses 2303, 7796, 9580

shoots

- abnormal development 530
- biochemistry 4246
- development
 - fungicides 10560
 - irrigation 7815
 - light 7815

soil amendments 509, 517, 4940, 7792, 8643, 8672, 9427-9428, 9594, 10610

soil conditioners, responses 3283

soil fumigation 1455

soil heating, equipment 9582

soil solarization 518, 1451, 1455, 3287, 4945

soilless culture

- cultural methods 8665, 9589
- disease control 2305, 3288, 6930, 7810
- growing media 492, 508, 2302, 6923, 7804, 8566, 8664, 8666-8667, 9460, 9590, 9592, 9616
- irrigation 3272, 3274
- nutrient solutions
 - composition 3277-3278, 4221, 6015
 - electrical conductivity 4228
 - pH 10544
 - salinity 495, 3282, 10551
 - temperature 8223
 - treatment 9588
- plant nutrition 492, 1473, 4222, 6754, 6928, 7805, 9589, 10491
- plant water relations 9226, 9616

systems

- assessment 3270, 3273, 4217, 6921
- hydroponics 2301, 3073, 3271, 3286, 4218, 6736, 6922, 10491, 10544
- nutrient film techniques 507, 1032, 3280, 3284, 8681-8682, 9616
- recycling 7802

sorting, techniques 5581

storage

- biochemistry 5130
- diseases 1477, 6039
- disorders 2317, 4251, 5130-5131, 6038
- losses 1477
- models 10567
- physiology 1476, 5131, 6036
- quality
 - assessment 6040

Tomatoes *cont.*storage *cont.*quality *cont.*

- cultivars 1427, 10539, 10564
- cultural methods 3269
- fertilizers 7800
- harvesting date 8692, 10566
- irrigation 7800
- maturity 10564
- soilless culture 9616
- systems
 - controlled atmosphere storage 4252, 9615, 10080, 10222
 - modified atmosphere storage 7829
 - temperature 543-544, 5127, 7830, 9614, 9618, 10564
 - treatment 5127, 6038, 6743, 6947, 7830

surveys, Argentina 4219

tillage, responses 8660

translocation

- measurement 8681-8682
- physiology 4236
- source sink relations 3280, 3294, 6903, 7817-7818, 8184
- temperature 7818

transpiration

- determination 6739
- humidity 5091
- light 5091
- measurement 10557
- models 5094, 8683
- physiology 7816
- salinity 6934
- temperature 531, 5091

trichomes 7815

water stress, responses 502, 1461, 2314, 3260, 3267-3268, 4209, 4238, 5095, 6016, 8657, 9602-9603

weed competition 499, 6012, 7799

weed control 500, 3264, 6920, 8494, 8658

wounds

- biochemistry 2310, 4242
- physiology 2317-2318

yields

- correlation 1471
- diseases 516, 4249
- forecasting 8693
- pests 4082, 6035, 7828

Tomatoes × *Lycopersicon hirsutum*, as rootstocks, tomatoes 5106**Topworking**

- apples 2868, 4765
- apricots 10179
- cashews 1791
- Citrus* 9879, 10839
- guavas 1821
- oranges 9883
- satsumas 1719

Torilis arvensis, as weeds, olives 7242**Tortricidae**

- apples 3790
- kiwifruits 7560, 9336
- strawberries 1211

Town compost (*see* Refuse compost)**Toxic substances**

composition

- Physalis ixocarpa* 875
- wild plants 4004
- responses, Chinese cabbages 8543
- uptake, vegetables 7644

Toxoptera aurantii, cocoa 8132*Toxotrypana curvicauda*, pawpaws 3681**Trace elements**

- fertilizers
 - lettuces 7689
 - tomatoes 5100

Trachelospermum asiaticum, weed control 1522*Trachycarpus fortunei*

- climate, requirements 5297
- geographical distribution 5297
- photosynthesis
 - seasonal variation 2474
 - temperature 2474

Trachymene geraniifolia

- ornamental value 1018
- wild plants, edible species 1018

Trachyspermum ammi, *in vitro* culture, propagation, micropropagation 4442**Tradescantia**

- protoplasts, histology 7053
- stomata, ultrastructure 9748

Tradescantia albiflora, soil amendments 7916*Tradescantia fluminensis*

- electrical properties, physiology 6831
- plant, development, morphology 3457

Tradescantia virginiana

- leaves, ultrastructure 6165
- plant water relations, physiology 2434

Tradescantia zebrina, leaves, anatomy 2435**Training** (*see* Plant training)**Translocation**

- assessment, *Asparagus* 4183
- diurnal variation, cauliflowers 4112
- light, peaches 9297
- measurement

Ficus benjamina 5240

tea 2765

tomatoes 8681-8682

models, peas 454

physiology

- algae 560
- celery 555
- cucumbers 6828
- culinary herbs 6248
- Cyclamen persicum* 633
- durians 7375
- plants 8225
- reviews 10506

radishes 9495

strawberries 8429

tomatoes 4236

Vaccinium 6666*Vicia faba* 6248

rootstock scion relationships, aubergines 3247

seasonal variation

kiwifruits 3911

Tipularia discolor 7069senescence, *Hemerocallis* 4304

source sink relations

Alstroemeria 10654

apples 1099, 3794

aubergines 3247

Capsicum 6903

Chinese cabbages 2185, 4113

cucumbers 5919

Cucurbita pepo 9967

grapes 1250

Hemerocallis citrina 1552

kiwifruits 3911

melons 9967

olives 8986

peaches 3878, 9297

Phaseolus vulgaris 530

plants, books 8184

raspberries 7570

roses 9787

strawberries 5737

tea 5515

tomatoes 530, 3280, 3294, 6903, 7818

staking, hops 3533

temperature

Alstroemeria 10654

peas 10505

tomatoes 7818

water relations, *Gladiolus* 10643**Transpiration** (*see also* Plant water relations)

altitude, vegetables 8499

assessment

cocoa 9020

oil palms 9020

carbon dioxide

Agave deserti 5226

greenhouse crops 1037

climate, vegetables 8499

cultivars, *Acer* 6209

cultural methods

apples 8301

cucumbers 401

pears 8301

determination

apples 10127

vegetables 6739

drought, vegetables 8499

fertilizers

Hibiscus rosa-sinensis 1648

Transpiration cont.fertilizers *cont.*

poinsettias 4396

flooding, *Momordica charantia* 10465growing media, *Prunus cistena* 6232

humidity, tomatoes 5091, 9596

irrigation

lettuces 6779

olives 6361

poinsettias 4396

light

apples 4779

coffee 7305

grapes 8466

Thymus vulgaris 4445

tomatoes 5091

measurement

Acer 6209

apples 4780, 9184

lawns and turf 4356, 10675

lettuces 3127

Nymphaea 9730

roses 3500

tomatoes 10557

Vaccinium macrocarpon 8416, 9354

models

cucumbers 5094

grapes 9400

tomatoes 5094, 8683

mycorrhizas, satsumas 3587

physiology

apples 6574

cucumbers 6025

Cyamopsis tetragonoloba 9531

tomatoes 1448, 6025, 7816

Vicia faba 3205

plant nutrition, grapes 8466

plant water relations

bananas 4511

grapefruits 4511

mandarins 4511

rootstock scion relationships, apples 8278

salinity

Annona squamosa 6372

tomatoes 6934

seasonal variation

bananas 9010

Gerbera 8755

roses 8858

shade, bananas 8120

soilless culture

Gerbera 8755

roses 8861

storage

carrots 10580

garlic 5787

lettuces 1318

temperature

tomatoes 531, 5091

vegetables 8499

water stress

coffee 7305

Cymbidium sinense 1601

grapes 7630

kiwifruits 6643, 9337

plums 9324

Thymus vulgaris 4445

tomatoes 9603

waterlogging, strawberries 3015, 10301

Transport

China, vegetables 4018

containers, *Capsicum* 7782

refrigeration

avocados 4487

peaches 10221

systems

assessment

apples 10165

Asparagus 460-461*Capsicum* 7782

kiwifruits 3916

mandarins 6342

containers, apples 10165

models

fruit crops 10076

vegetables 10076

temperature, cherries 7521

Tranzschelia pruni-spinosae, plums 3903*Trapa*, *in vitro* culture, propagation,

micropropagation 6059

Trapa natans

pesticides, residues 1496

seeds

germination

storage 559

temperature 559

Treculia africana

seeds

anatomy 3697

composition 3697

Trees and shrubs (see Ornamental woody plants)***Tremella fuciformis***

cytology 1507

fructification 1507

Triacylglycerols, metabolism, photosynthesis, olives 7250***Trialeurodes vaporariorum***

aubergines 6933

celery 10367

cucumbers 3285, 4141, 5903, 10367

tomatoes 1457, 2308, 3285, 3291-3292,

4232, 4946, 6023, 6933, 7814,

10367

vegetables 1365, 5777

Trianthema portulacastrum, as weeds, okras 2270***Tribulus terrestris***, as weeds, okras 2270***Trichocentrum***, taxonomy, keys 706***Trichocentrum estrellense***, taxonomy, new

taxa 706

Trichocentrum wagneri, taxonomy, new

taxa 706

Trichodermacontrol, of *Corticium rolfsii*, *Zingiber**officinale* 7137weed moulds, *Lentinula edodes* 8731***Trichoderma hamatum***

control

of *Fusarium oxysporum* f.sp.*zingiberi*, *Zingiber officinale*

1669

of *Phytophthora cryptogea*, *Gerbera*

3396

of *Rhizoctonia solani*

aubergines 10528

Capsicum 10528*Zinnia elegans* 10528***Trichoderma harzianum***

control

of *Fusarium oxysporum* f.sp.*basilicum*, *Ocimum basilicum*

1047

of *Fusarium oxysporum* f.sp. *radicis-**lycopersici*, tomatoes 10552of *Fusarium oxysporum* f.sp.*zingiberi*, *Zingiber officinale*

1669

of *Phytophthora colocasiae*, mandarin

rins 10847

of *Phytophthora meadii*, *Elettaria**cardamomum* 753of *Phytophthora nicotianae* var.*parasitica*, mandarins 10847of *Pythium ultimum*, cucumbers 1047of *Rhizoctonia solani*

passion fruits 3626

Phaseolus vulgaris 1047

vegetables 326

Trichoderma koningii, control, of *Monilinia**laxa*, peaches 5662***Trichoderma viride***

control

of *Phytophthora colocasiae*, mandarin

rins 10847

of *Phytophthora cryptogea*, *Gerbera*

3396

of *Phytophthora meadii*, *Elettaria**cardamomum* 753of *Phytophthora nicotianae* var.*parasitica*, mandarins 10847***Trichogramma***

control

of *Eupoecilia ambiguella*, grapes

5760

of *Lobesia botrana*, grapes 5760***Trichogramma embryophagum***, control, of*Cydia pomonella*, apples 5614***Trichogramma pretiosum***, control, of*Scrobipalpula absoluta*, tomatoes 6021***Trichogrammatoidea bactrae fumata***, control, of *Conopomorpha cramerella*, cocoa 9018***Tricholoma matsutake***

climate, Korea Republic 8737

production, Korea Republic 9638

Trichomes*Artemisia annua* 5335*Cannabis sativa* 7159

cucumbers 4141

Dracocephalum moldavica 3525

longans 10877

Mentha piperita 754

nectarines 5666

Nepeta cataria 3525*Nicotiana glutinosa* 4462

olives 7248

peaches 5666

Perilla frutescens 5320*Stevia rebaudiana* 2533*Tamarix aphylla* 7125

tomatoes 7815

Trichoplusia ni

cabbages 386, 7711, 8496, 9483

Chinese cabbages 4105

peas 3214

Trichopus zeylanicus*in vitro* culture

propagation

micropropagation 1693

techniques 1693

Trichosalpinx, taxonomy, nomenclature

7056

Trichosalpinx fruticosa, taxonomy, new taxa

9753

Trichosalpinx lankesteriana, taxonomy, new

taxa 9753

Trichosalpinx ringens, taxonomy, new taxa

9753

Trichosalpinx todziae, taxonomy, new taxa

9753

Trichosanthes cucumerina, seeds, composition

5922, 10484

Trichosanthes dioica

cultivars, assessment, India 6808

fertilizers

nitrogen 6815

phosphorus 6815

potassium 6815

Trifolium

as cover crops

apples 8264

cabbages 7710

temperate fruits 2842

as weeds, lawns and turf 3443

ornamental value 1509

Trifolium fragiferum, as cover crops, grapes

3968

Trifolium incarnatum, as green manures,

tomatoes 6014

Trifolium pratense, as cover crops, broccoli

9476

Trifolium repens

as cover crops

apples 1076, 2869, 2879, 3778, 4764,

9185, 10113

broccoli 9476

temperate fruits 5585

as weeds, lawns and turf 6146

weed control 8802

Trifolium subterraneum

as cover crops

broccoli 9424

grapes 3968

hazelnuts 2940

lettuces 9424

temperate fruits 8234

tomatoes 9424

utilization

mulches

broccoli 9424

lettuces 9424

tomatoes 9424

Trigonella caerulea, taxonomy, chemotaxonomy

8928

Trigonella corniculata

cultivars, pest resistance 7996

herbicides, injuries 8617

plant growth regulators, reviews 9426

seeds, production, cultural methods 8617

taxonomy, chemotaxonomy 8928

- Trigonella corniculata** *cont.*
weed control 8617
- Trigonella cretica**, taxonomy, chemotaxonomy 8928
- Trigonella foenum-graecum**
cultivars
disease resistance 10803
pest resistance 7996
disease control
Erysiphe polygoni 10803
Leveillula taurica 10803
fertilizers
nitrogen 2567, 10585
phosphorus 2567, 4941, 7997, 10585
sulfur 2567
irrigation, water, salinity 10745
manures 4941
plant growth regulators, reviews 9426
plant nutrition
nitrogen 2566
phosphorus 2566
seedlings
development
seed treatment 5324
water stress 5324
seeds, treatment 5324
soil amendments 2566
taxonomy, chemotaxonomy 8928
- Trigonella monspeliaca**, taxonomy, chemotaxonomy 8928
- Trinidad and Tobago**, maize, cultivars 7844
- Trioxyis indicus**, control, of *Aphis gossypii*, Cucurbitaceae 3180
- Trioza apicalis**, carrots 4254
- Trioza eugeniae**, *Syzygium paniculatum* 4431
- Triphasia trifolia**, *in vitro* culture, somatic embryogenesis 8899
- Tripsacum laxum**, as cover crops, tea 953
- Triticale**, as cover crops, tomatoes 7806
- Trollius chinensis**, characteristics 622
- Tropaeolum**, ornamental value 2398
- Tropaeolum majus**
leaves, senescence 623
plant, biochemistry 8226
stomata, movement, plant growth regulators 623
- Tropaeolum peltophorum**, leaves, development, assessment 4317
- Tropical crops**
books 10030
conferences 6481
cover crops, responses 3637
cropping systems, agroforestry 1772
in vitro culture, techniques 30
pest control, conferences 2798
processing, residues 3637
production
India, books 2788
Malaysia 4568
production possibilities, South Africa 2578
reports
India 10057
Malaysia 5549
seeds, composition 9923
- Tropical fruits**
climate, Argentina 5357
conferences 1003
cropping systems, agroforestry 3636
production
Brazil 6488
Vietnam 2667
research, Réunion 2577
storage
books 992
disease control
books 5529
reviews 5450
pest control, reviews 5450
systems, cold storage 10906
surveys
Caribbean 4569
Central America 4569
- Tropidia angulosa**, flowers, anatomy 7927
- Tsuga**, pest control, *Adelges tsugae* 7951
- Tuber**
cultural methods, Italy 581
morphology 5151
- Tuber aestivum**, composition 10602
- Tuber albidum**, cultural methods, Italy 6077
- Tuber magnatum**
aroma 2365
composition 10602-10603
mycelium, growth 3373
storage
biochemistry 10603
temperature 10603
- Tuber melanosporum**
aroma 2365
climate
France 2366
Italy 582
composition 10602
cultural methods, France 7855
marketing, Italy 582
morphology 5152
mycelium, growth 3373
mycorrhizas
Corylus 7855
hazelnuts 7856
Quercus 7855
soil types 582
- Tuber mesentericum**, morphology 5152
- Tuber rufum**, morphology 5152
- Tubers**
development
biochemistry
Jerusalem artichokes 2152, 6775
Stachys sieboldii 6967
histology
Begonia 6122
Cyclamen 6122
physiology, *Stachys sieboldii* 6965-6966
dormancy, plant growth regulators, *Momordica dioica* 6830
production, cultural methods, *Dahlia pin-nata* 1561, 6123
size, plant growth regulators, *Dahlia pin-nata* 1561
sprouting, storage, *Sandersonia aurantiaca* 4339
storage, temperature, *Sandersonia aurantiaca* 4339
treatment, potassium nitrate, *Momordica dioica* 6830
- Tuff**
utilization
growing media
Capsicum 9563
carnations 6088
roses 3497
tomatoes 3281
- Tulip breaking potyvirus**
Lilium 1567
Lilium longiflorum 10649
Lilium maculatum 10649
tulips 1568
- Tulip tip breaking potyvirus**, tulips 1568
- Tulipa** (*see also* Tulips)
- Tulips**
bulbs
storage
disease control 4332
systems 626
treatment 651, 5202
cultivars, assessment, Poland 5200
cut flowers
senescence 9709
vase life 652
disease control
Penicillium allii 5202
Penicillium hirsutum 4332, 5202
viruses 1568
forcing 7900
growing media, characteristics 7900
herbicides, atrazine, metabolism 7902
in vitro culture
explants, sources 7022
propagation, micropropagation 6131, 7021-7022
leaves
mechanical properties, stress 1569
senescence 3436
plant, development, environment 4331
plant growth regulators
gibberellins, metabolism 651
methyl jasmonate, responses 3436
plant nutrition
nitrogen 7900
phosphorus 7900
- Tulips** *cont.*
plant nutrition *cont.*
potassium 7900
planting, spacing 5201
planting stock, overwintering 6121
pot plants, production, cultural methods 6121
production, models 8783
propagation, techniques 4331
research, Netherlands 8201
shoots
mechanical properties, stress 1569
physiology 7901
- Tunisia**
apricots, cultivars 8324
Citrus, marketing 4677
dates, marketing 4677
melons, cultivars 1806
olives
climate 8095
cultivars 7241
vegetables, marketing 4677
- Tunnels** (*see* Protected cultivation)
- Turkey**
apricots
cultivars 9229
nutrients, surveys 9238
plant nutrition, surveys 9237
production 9229, 9232
Capparis, ecology 6244
Citrus, pest control 2595
edible fungi, surveys 561
mandarins, cultivars 10824
peaches, cultivars 2945
pears, cultivars 7534
plums, cultivars 4850
strawberries, cultivars 10294
temperate fruits, plant nutrition 9150
vegetables, plant nutrition 9150
walnuts
pests, surveys 6641
production 8387
- Turmeric** (*see* *Curcuma longa*)
- Turnip mosaic potyvirus**, Chinese cabbages 3145
- Turnips**
pest control, *Myzus persicae* 5006
plant competition, radishes 10434
pollution
acid rain 9422
radionuclides 2107
protected cultivation, systems, plastic tunnels 317
seeds, production, cultural methods 328
soilless culture, systems, hydroponics 3073
- Tussilago farfara**
harvesting, harvesting date, assessment 2568
plant, development, phenology 2568
- Tylenchorhynchus**, lawns and turf 670
- Tylenchorhynchus vulgaris**, aubergines 4198
- Tylenchulus semipenetrans**
Citrus 831, 2589
Citrus microcarpa 2597
grapes 283
oranges 4510
sour oranges 1729
- Tylopilus felleus**, pollution, radionuclides 3329
- Typhlodromus pyri**
apples 5612, 8294
control
of Acari
cherries 1993
grapes 1922
plums 1993
temperate fruits 1922
of *Panonychus ulmi*, apples 1090
of *Tetranychus urticae*, hops 1678
- Tyto alba**, control, of rats, oil palms 7342
- Uapaca kirkiana**
ecology, Africa 4654
geographical distribution 4654
production possibilities, Southern Africa 11028
- Uganda**
bananas
cultivars 5454
production 3640

UK

- Aerangis distincta*, cultural methods 10697
- Anthurium warocqueanum*, cultural methods 676
- apples, marketing 4803
- Araceae, cultural methods 593
- arboreta 2461, 3464
- Arrojadoa, cultural methods 7919
- Bergenia emeiensis*, cultural methods 5181
- Biarum ditschianum*, cultural methods 610
- Blandfordia*, species 9711
- botanical gardens, books 4657
- Bucephalandra motleyana*, cultural methods 679
- Centaurea rothrockii*, cultural methods 3408
- cherries, rootstocks 3744
- Citrus*, pests, surveys 1736
- Corylus maxima*, cultural methods 3824
- Crocus*, cultivars 10639
- Culcasia seretii*, cultural methods 681
- Cynorkis gibbosa*, cultural methods 10703
- Dactylorhiza praetermissa*, conservation 1605
- Diascia*, cultivars 8769
- Dracula vampira*, cultural methods 10706
- Epigeneium triflorum*, cultural methods 10707
- Epimedium*, cultural methods 8770
- Eulophia pulchra*, cultural methods 7937
- Eustoma grandiflorum*, cultivars 7005
- Fritillaria chitralensis*, cultural methods 3437
- fruit crops, production 28
- gooseberries, cultivars 5702
- hazelnuts, cultural methods 3824
- Helleborus dumetorum*, cultural methods 6113
- horticultural crops, economics 6493
- Iris*, cultural methods 1565
- Lepanthes*, cultural methods 1610
- Leptospermum lanigerum*, cultural methods 2507
- Myrica gale*, production possibilities 7152
- Nicotiana sanderae*, cultivars 7011
- Nomocharis*, cultural methods 3438
- Ochagavia elegans*, cultural methods 3447
- Odontoglossum harryanum*, cultural methods 10709
- ornamental plants
- economics 1258, 9641
 - pest control 3377
- ornamental woody plants, conservation 2457
- Parochetus*, cultural methods 618
- pears
- cultivars, books 10034
 - rootstocks 3744
- Peucedanum officinale*, ecology, reviews 9856
- Plectocephalus rothrockii*, cultural methods 3408
- plums
- cultivars 8378
 - cultural methods 8378
 - rootstocks 3744
- Poaceae, species 9654
- Rosmarinus officinalis*, cultivars 10741
- Rubus arcticus*, cultural methods 6660
- strawberries, cultivars 7582, 10289
- sunflowers, cultivars 10630
- Tillandsia*, cultural methods 674
- Ulearum sagittatum*, cultural methods 691
- vegetables
- cultivars, books 5536
 - economics 1258
 - production 28

Ukraine

- Allium ursinum*, ecology 7156
- apples, rootstocks 1936
- gooseberries, cultivars 4873
- grapes, cultivars 2075
- Mentha*, cultivars 5312

Ukraine cont.

- red currants, cultivars 5699
- white currants, cultivars 5699
- Ulearum sagittatum*, cultural methods, UK 691
- Ulmus*
- cultivars
 - characteristics
 - Canada 743
 - USA 743
 - species, ornamental value 7982
- Ulmus americana*
- pest control
 - Gossyparia spuria* 6237
 - Pyrrhalla luteola* 6237
 - Tinocallis ulmifolii* 6237
- Ulmus davidiana*, cultivars, ornamental value 1652
- Ulmus parvifolia*, planting stock, production, cultural methods 4428
- Ulmus pumila*
- pest control
 - Gossyparia spuria* 6237
 - Pyrrhalla luteola* 6237
 - Tinocallis ulmifolii* 6237
- Uva lactuca*, cultural methods, Israel 6299
- Uva rigida*, plant, composition 5356
- Uva rotundata*, plant, composition 5356
- Unaspis euonymi*, *Euonymus* 6217
- Uncinula necator*, grapes 259, 279-282, 1046, 1243, 2091, 2892, 3058-3059, 4920-4921, 4924, 8469-8470, 8472, 9412, 10337
- Undaria pinnatifida*, translocation, physiology 560
- Uniola paniculata*
- fertilizers, nitrogen 4318
 - planting, depth 4318
 - seeds, germination, seed treatment 4318
- Uranium**, uptake, vegetables 316
- Urginea maritima*
- irrigation, frequency 6291
 - soil types 6291
- Urginea undulata*, taxonomy, nomenclature 1578
- Uromyces appendiculatus*, *Phaseolus vulgaris* 3199
- Uromyces viciae-fabae*, *Vicia faba* 432, 3208
- Urtica*, as weeds, olives 8097
- Urtica dioica*, cultural methods, Germany 8929
- Uruguay**, grapes, production 6681
- USA**
- Acer saccharinum*, cultivars 9768
 - Aizoaceae, cultural methods 673
 - almonds
 - disease control 9167
 - marketing 74
 - pest control 2852, 9167 - Antirrhinum*, cultivars 6991
 - apples
 - cultivars 1064, 2856, 5598, 10094
 - cultural methods 2853
 - disease control 9191
 - economics 4715
 - pest control 9191
 - production 4713, 4715, 4726-4727
 - rootstocks 1937-1938, 4751 - apricots
 - cultivars 1127-1128
 - disease control 9239
 - pest control 9239 - Ascocenda*, cultural methods 8835
 - Asparagus*, hybrids 3223
 - bedding plants
 - cultivars 583
 - species 583 - blackberries, cultivars 3005, 6652
 - broccoli
 - cultivars 7699
 - surveys 336, 8505 - cabbages, cultivars 4084
 - Cactaceae, cultural methods 2579
 - Camellia*, pest control 2476
 - Capsicum*, cultivars 1409
 - Casimiroa edulis*, production possibilities 5448
 - cauliflowers, cultivars 7699
 - celery, cultivars 2328, 6959
 - cherries
 - cultivars 3816, 9265

USA cont.

- cherries cont.
- disease control 9267
 - pest control 9267
- chestnuts, production 10195
- Citrus*, economics 5361, 7195
- coffee, cultivars 4599
- Cornus kousa*, cultivars 9769
- cucumbers, surveys 6807
- Cucurbita*, cultivars 7728
- Cucurbita maxima*, cultivars 2198
- Cucurbitaceae
- disease control 9510
 - pest control 9510
 - research 1346
- Cymbidiella*, cultural methods 8837
- Dianthus*, cultivars 592, 5192, 6991
- Eulophiella*, cultural methods 7058
- Exochorda serratifolia*, cultivars 9768
- figs
- disease control 9273
 - pest control 9273
- fruit crops
- economics 9159
 - marketing 4708
- Gleditsia triacanthos*, cultivars 9769
- globe artichokes, cultivars 4065
- grapes
- cultivars 2076, 3952, 5749, 9377
 - disease control 9395
 - pest control 9395
 - rootstocks 6688
- Grindelia*, cultivars 10810
- Hedera helix*, cultivars 1624
- Hesperaloe*, species 6160
- Holcoglossum*, cultural methods 3462
- hops, cultivars 4305-4306
- horticultural crops
- economics 1024, 4675
 - marketing 1023
- kale, cultivars 592, 6991
- Lagerstroemia indica* × *Lagerstroemia fauriei*, climate 6227
- landscaping, ornamental woody plants 707
- lawns and turf
- cultivars 4342, 5209, 8799
 - economics 1580
 - research 3441
 - surveys 4340
- Lilium*
- cultivars 7894
 - species 642
- Lilium humboldtii*
- conservation 643
 - cultural methods 643
- Lilium leucanthum* × *Lilium speciosum*, cultivars 7018
- Lilium michiganense*, wild plants, conservation 644
- Litchi*
- cultivars 5418
 - production 2632
 - production possibilities 5418
- Lonicera pileata*, cultivars 9768
- Lonicera tatarica*, cultivars 9768
- Magnolia macrophylla*, cultural methods 7083
- Malus*, cultivars 9769
- Miltonia*, cultural methods 1611, 6176
- nectarines
- cultivars 1997-1998, 3833, 6611
 - disease control 9293
 - pest control 9293
- nut crops
- cultivars 2810
 - research 63
- olives
- disease control 9910
 - pest control 9910
- onions
- marketing 4965
 - surveys 336, 8505
- oranges, cultivars 8940
- ornamental plants
- pest control 1525
 - production 584, 5157
- ornamental woody plants, pest control 2473
- Parthenium argentatum*, cultivars 7188

- USA cont.**
Parthenocissus quinquefolia, cultivars 9768
 peaches
 cultivars 1143-1144, 2946, 3832, 4826, 8346, 10205-10206
 disease control 9293
 pest control 9293
 pecans
 cultivars 197, 2975, 2977, 4846
 pest control 9314
 production 195
 research 196
 surveys 1170-1171, 2976
Phalaenopsis, cultural methods 1613
Phaseolus vulgaris, cultivars 1374
Philadelphus, cultivars 9769
 plants, books 4661
 plums
 disease control 9323
 pest control 9323
 poinsettias, cultivars 1626
Rhododendron, climate 6194
Ribes odoratum, cultivars 6649
Salvia, cultivars 5156
 satsumas, cultivars 1713
Simmondsia chinensis, ecology 4467
 small fruits
 disease control 3907
 pest control 3907
Sorbus aria, cultivars 9768
 stone fruits
 disease control 7446
 pest control 7446
 strawberries
 cultivars 1203-1204, 3012, 5720
 disease control 9365, 9368
 pest control 9365, 9368
 subtropical fruits, cultivars 2810
Syringa vulgaris, cultivars 9777
 temperate fruits
 cultivars 2810
 pest control 1921
 production 4712
 research 63
Tilia cordata, cultivars 9768
Tilia mongolica, cultivars 9768
 tomatoes
 cultivars 1433-1436, 5085, 6910-6912
 economics 487, 1478
 hybrids 1428
 pest control 7813
Ulmus, cultivars 743
Vaccinium
 cultivars 1198, 2048, 4879
 pest control 236, 8415
Vaccinium angustifolium, weeds, surveys 233
Vaccinium ashei, cultivars 3923
Vaccinium corymbosum, cultivars 1199
Vaccinium darrowii, cultivars 1199
Vaccinium stamineum, production possibilities 8409
Vanda, cultural methods 8835
 vegetables
 disease control 9431
 marketing 4708
 pest control 9431
 production 4934
 production possibilities 8491
Viola, cultivars 592, 5192, 6991
Viola wittrockiana, cultural methods 624
 walnuts
 disease control 9330
 pest control 9330
 watermelons, cultivars 1807
Weigela subsessilis, cultivars 9769
 wild plants, utilization, ornamental plants 2455
- USSR, *Glycine max***, cultural methods 5983
- Vaccinium**
 bird repellents
 determination 5711
 residues 5711
 cultivars
 assessment, USA 1198, 4879
 characteristics, USA 2048
 cultural methods, Japan 7572
 disease control
 fungi 3928
 USA 3907
- Vaccinium cont.**
 diseases, books 985
 disorders, books 985
 fertilizers, nitrogen 4880
 fruits
 quality
 cultivars 4879
 storage 4879
 mulching, materials 8413
 nutrients, uptake, soil pH 1200
 pest control, USA 236, 3907, 8415
 plant training, systems 3747
 production, Philippines 9355
 propagation, techniques 234, 8410
 pruning, systems, mechanical methods 5709
 research, Japan 7572
 soil amendments 4880
 soil pH, responses 1200
 weed control 236, 3907, 8415
 winter hardiness, cultivars 6662
- Vaccinium angustifolium**
 cropping systems 2049
 cultivars, composition 3924
 fertilizers
 nitrogen 7576
 phosphorus 7576
 fruits
 biochemistry, cultivars 3924
 set, cultural methods 2049
 pest control, *Rhagoletis mendax* 237
 weeds, surveys, USA 233
- Vaccinium ashei**
 buds, biochemistry, temperature 8418
 chilling requirement 8418
 cultivars
 assessment, USA 3923
 disease resistance 9352
 identification 2047
 dormancy, biochemistry 8417
 flowers, biochemistry, temperature 8418
 frost, injuries 1201
 fruits
 mechanical properties
 plant growth regulators 239
 plant nutrition 239
 quality
 cultivars 4879
 storage 4879
 set, plant growth regulators 1201
 irrigation, responses 3923
 mycorrhizas 6510
 plant growth regulators
 abscisic acid, metabolism 8417
 cytokinins, responses 7577
 gibberellic acid, responses 7578
 IAA, metabolism 8417
 plant nutrition
 calcium 239
 nitrogen 2051
 soil management, systems 3926
 soil pH, responses 2050
 soilless culture, nutrient solutions, pH 3008
 storage
 diseases 9352, 10285
 packing 10285
 quality
 plant growth regulators 239
 plant nutrition 239
 systems, cold storage 10285
 surveys, Chile 6510
 winter hardiness, cultivars 6662
- Vaccinium australe** (see *Vaccinium corymbosum*)
- Vaccinium corymbosum**
 buds, biochemistry, temperature 8418
 chilling requirement 8418
 cultivars
 assessment, USA 1199
 in vitro culture 4881
 ecology, Canada 8420
 fertilizers
 boron 6664
 nitrogen 3009, 3927, 7575
 phosphorus 3009
 potassium 3009
 flowers, biochemistry, temperature 8418
 frost, resistance, fertilizers 6664
 fruits
 composition 8421
- Vaccinium corymbosum cont.**
 fruits cont.
 quality, assessment 10264
 set, fertilizers 6664
 harvesting
 injuries 10284
 techniques, mechanical harvesting 10284
in vitro culture
 culture media 4881
 propagation, responses 5708, 9353
 responses, cultivars 4881
 mulching
 materials 9353
 responses 3009
 mycorrhizas 6510, 7573, 7575
 packing, materials 10286
 plant growth regulators, cytokinins, responses 7577
 plant nutrition
 calcium 10283
 magnesium 10283
 nitrogen 10283
 phosphorus 10283
 potassium 10283
 sulfur 10283
 planting, spacing 3925
 planting stock, types, assessment 5708
 reproduction, fertilization 8419
 seeds
 production, assessment 8420
 quality, cultural methods 8419
 soil amendments 3009, 7575
 soilless culture, nutrient solutions, pH 3008
 storage
 diseases 7591, 10286
 systems
 cold storage 10286
 controlled atmosphere storage 7591
 modified atmosphere storage 10286
 surveys, Chile 6510
 winter hardiness, cultivars 6662
- Vaccinium darrowii**, cultivars, assessment, USA 1199
- Vaccinium macrocarpon**
 cultivars, identification 1197
 fruits
 composition 3930
 development
 climate 9351
 cultivars 9351
in vitro culture
 biochemistry 3930
 culture media 8411
 organogenesis 8411
 mycorrhizas 5710, 8414
 photosynthesis
 measurement 3929
 seasonal variation 3929
 plant nutrition
 iron 5710
 phosphorus 8414
 soilless culture, systems, aeroponics 7574
 transpiration, measurement 8416, 9354
 weed control 235, 8412
 yields, forecasting 3010
- Vaccinium microcarpon**, translocation, physiology 6666
- Vaccinium myrtillus**
 plant, habit 238
 pollution
 copper 6663
 nickel 6663
 reproduction, biology 5712
 seeds
 development, pollution 6663
 germination, pollution 6663
 yields, forecasting 3010
- Vaccinium oxycoccus**
 translocation, physiology 6666
 yields, forecasting 3010
- Vaccinium stamineum**, production possibilities, USA 8409
- Vaccinium uliginosum**
 climate, Russia 9350
 reproduction, biology 5712
- Vaccinium vitis-idaea**
 cultivars, *in vitro* culture 4881

Vaccinium vitis-idaea *cont.*

- ecology, Russia 2537
- in vitro* culture
 - culture media 4881
 - responses, cultivars 4881
- photosynthesis, physiology 6665
- plant, habit 238
- reproduction, biology 5712

Valeriana officinalis

- leaves, biochemistry, seasonal variation 766

plant

- development, assessment 765
- morphology 3531
- planting, spacing 3531

Valerianella locusta

- plant, composition 3129
- reports, Belgium 1884
- soilless culture
 - plant nutrition 3129
 - responses 3129
 - systems, hydroponics 3328
- weed control 3328

Valerianella olitoria (see *Valerianella locusta*)**Vallis solanacea**, plant, composition 7947**Vallota speciosa** (see *Cyrtanthus elatus*)**Vanadate**, plant nutrition, *Phaseolus vulgaris* 5045**Vanadium**

- fertilizers
 - Brassica 9478
 - strawberries 9478
- plant nutrition, *Phaseolus vulgaris* 423
- responses, *Phaseolus vulgaris* 5045

Vanda

- books 4660
- breeding, interspecific hybridization 2452
- cultural methods, USA 8835
- in vitro* culture, propagation, micropropagation 7945, 9765
- planting stock, production, containers 9765
- roots, physiology 5254

Vanda spathulata

- leaves, anatomy 7932
- shade, responses 7932

Vanilla barrereana, taxonomy, new taxa 2453**Vanilla planifolia**

- pollination, techniques 2521
- shoots, development, models 2520

Vanilla porteresiana, taxonomy, new taxa 2453**Vanuatu**

- fruit crops, surveys 10904
- nut crops, surveys 10904

Vascular system

- apples 5284, 6573
- apricots 9247
- Bixa orellana* 7138
- celery 6960
- Chamaelaucium uncinatum* 2494
- Coleus hybridus* 7748
- Cornus florida* 5284
- Cucurbita* 5904
- Cucurbita pepo* 9967
- Dahlia pinnata* 5904
- Forsythia intermedia* 2502
- Gladiolus* 10643
- grapefruits 4523
- grapes 5763
- Hevea* 2749
- horticultural crops 4680, 9153
- Ipomoea* 5340
- Laurus nobilis* 5287
- melons 9967
- oranges 6331
- peaches 5284, 6573, 6630
- peas 1392
- Phaseolus vulgaris* 4161, 7748, 8596
- Pyrus bretschneideri* 6630
- Sorbus torminalis* 7122
- tomatoes 3302, 5103
- watercress 6806
- Zinnia* 7014
- Zinnia elegans* 3423, 8782

Vegetables

- conferences 13, 1008-1009, 2800, 4668, 5542, 6479-6480
- cooling, equipment 59

Vegetables *cont.*

- cropping systems
 - agroforestry 9934
 - rotations 6731
- cultivars
 - assessment
 - Brazil 7405
 - Colombia 7642
 - UK, books 5536
 - cultural methods
 - China 4010
 - mechanization 5559
 - disease control
 - fungi 2828
 - Germany 7648
 - integrated control, reviews 3078
 - Rhizoctonia solani* 326
 - USA 9431
 - economics
 - Germany 5767
 - UK 1258
 - fertilizers 3075, 4013
 - books 8181
 - boron 4948, 7418
 - manganese 6738
 - molybdenum 4948
 - nitrogen 4948
 - phosphorus 3076, 7418
 - potassium 4948
 - sulfur 7418
 - fruits
 - composition 7651
 - quality, assessment 62
 - fungicides, determination 1911
 - grafting, cultural methods 4935
 - handling
 - research 10073
 - techniques 4709
 - Vietnam 4700
 - harvesting, equipment 5768, 6741
 - herbicides
 - books 2109
 - tolerance 3071, 4011
 - in vitro* culture, metabolites, production, reviews 7129
 - irrigation
 - carbon dioxide, application 9419
 - fertigation 3075
 - requirements, determination 6733-6734
 - systems 3072, 6735
 - water, sources 2111
 - leaves, composition 7651
 - manures 2113
 - marketing
 - Poland 1055
 - Sweden 1274
 - Tunisia 4677
 - USA 4708
 - mechanically induced stress, responses 1261
 - nurseries, cultural methods 5559
 - nutritive value 1916, 4014
 - organic culture 2115
 - parasitic plants
 - Cuscuta* 9136
 - Orobancha* 2110
 - pest control
 - Asia 2117
 - conferences 1005
 - Germany 7648
 - Hemiptera 3080
 - insects 52
 - integrated control, reviews 3078
 - Liriomyza trifolii* 2830
 - Meloidogyne incognita* 4945
 - Nematoda 327, 4945
 - Noctuidae 3147
 - USA 9431
 - pesticides, residues 2833, 5580
 - pests, surveys, Denmark 2115
 - photosynthesis, climate 8499
 - plant
 - canopy, physiology, reviews 1273
 - colour, assessment 5855
 - composition 4019, 4939, 5580, 9152, 10363
 - development
 - carbon dioxide 9425
 - phenology 4015-4016
 - shade, reviews 1273

Vegetables *cont.*

- plant *cont.*
 - development *cont.*
 - temperature 9425
 - mechanical properties, measurement 9158
- plant growth regulators, reviews 7646, 9426
- plant nutrition
 - boron 5775
 - cadmium 325
 - copper 325
 - lead 325
 - nickel 325
 - nitrogen 2114
 - selenium 9429
 - Turkey 9150
 - zinc 325, 4014
- plant water relations, rain 1264
- planting
 - site preparation 9421
 - systems 4943
- planting stock, establishment 1259
- pollution
 - acid rain 9422
 - caesium 4008, 4937
 - reviews 4936
 - exhaust gases 4007
 - heavy metals 4007, 5580, 5771
 - radionuclides 4008-4009, 6730
- production
 - China 7641
 - Colombia 10358
 - India 6491
 - Papua New Guinea 312
 - UK 28
 - USA 4934
- production possibilities
 - Argentina 7403
 - Taiwan 9415
 - USA 8491
- protected cultivation
 - conferences 2803
 - cultural methods 4010
 - humidity 7645
 - light 7645
 - pest control 5777, 10365
 - systems
 - nets 9423
 - row covers 318
 - temperature 7645
- quality
 - assessment 4708
 - conferences 9121, 10047
 - reviews 61, 10081
 - handling 4708
- rain, responses 1264
- reports
 - Belgium 1888
 - Finland 6485
 - Germany 10056
 - Malawi 10059
 - Netherlands 8194
 - UK 4673
- research
 - Asia 4006
 - equipment 9132
 - Indonesia 5556
- rhizosphere, microorganisms 322
- roots
 - development
 - plant extracts 4081
 - stress, reviews 1272
- seedlings
 - development
 - cultural methods 1259
 - stress, reviews 1272
 - planting
 - equipment 5768
 - mechanical methods 5769
 - production
 - equipment 5769, 6727-6728
 - growing media 1268
- seeds
 - composition 7651
 - germination
 - biochemistry 314
 - seed treatment 9416
 - production
 - Croatia 2837
 - cultural methods 328

Vegetables *cont.*seeds *cont.*

- quality, biochemistry 3070
- sowing, equipment 6726
- treatment 7643

senescence

- biochemistry 6518
- reviews 3731, 10078

shade, responses, reviews 1273

soil amendments 7647, 9428

soil solarization 4945

soil water, responses 8495

soilless culture, systems, hydroponics 3073, 5774, 6736-6737

sorting

- equipment 8229
- techniques 4709

storage

- buildings 7650
- humidity 7435
- precooling 4706
- research 10073
- systems
 - assessment, reviews 10077
 - controlled atmosphere storage 57, 4703, 5578, 7433
 - conferences 2799
 - modified atmosphere storage 56, 4701, 5578, 10075
 - treatment 6743
- surveys, Papua New Guinea 312
- transpiration, climate 8499

transport

- China 4018
- systems, models 10076

weed control 319, 2817

- books 2109
- conferences 1012

weeds, Finland 320

wild plants, utilization, Japan 4005

yearbooks 2796, 3704

yields, forecasting 6742

Venezuela

- Annona muricata*, cultivars 7262
- avocados, cultivars 3562
- broccoli, cultivars 10421
- ethnobotany 4674
- grapes, cultivars 8447
- mangoes, rootstocks 4622-4624
- onions, cultivars 3088
- wild plants, edible species 4674

Venturia cerasi, cherries 6600**Venturia inaequalis**

- apples 110-113, 1062, 1073, 1087-1088, 2893, 3762, 3787-3788, 3805, 4728, 4735, 4775, 5609, 6536, 7447, 7480-7483, 8287-8291, 8293, 10124
- fruit crops 7479
- Malus* 4424, 7976
- pears 7447, 7483

Venturia pirina

- fruit crops 7479
- pears 8367
- Pyrus* 9308

Verbascum densiflorum, seeds, germination,

storage 2569

Verbascum phlomoides, seeds, germination,

storage 2569

Verbena

- planting stock, production, soilless culture 8743
- pot plants, development, temperature 10611

Verbena hybrida, flowers, colour, biochemistry 1558**Verbenaceae**

- species
 - Mauritius 10062
 - ornamental value 10062

Vermiculite

utilization

- growing media
 - chrysanthemums 3388
 - cucumbers 5892
 - Cupressus arizonica* 3478
 - Cyclamen persicum* 3425
 - Dendrobium* 1606
 - Gypsophila* 613
 - ornamental woody plants 3466
 - peaches 4827
 - peas 1391

Vermiculite *cont.*utilization *cont.*growing media *cont.**Phalaenopsis* 1606propagation, *Hevea* 10991**Vernonia amygdalina**, leaves, composition 2176**Veronica**

forcing 595

pot plants, production, cultural methods 595

Veronica arvensis, as weeds, cabbages 9475**Veronica dillenii**, as weeds, *Oenothera biennis* 770**Veronica persica**

as weeds

apples 1949

pears 1949

Verticillium dahliae

aubergines 1423, 6002, 6906

strawberries 1211, 7582

tomatoes 1433-1435

Verticillium lecanii

control

of *Ceroplastes rusci*, oranges 1728of *Sphaerotheca fuliginea*, cucumbers 7736**Verticordia**

cultivars, characteristics, Australia 7983

cultural methods, Australia 6238

disease control, Australia 6238

flowers, morphology 6239

research, Australia 6240

species, characteristics, Australia 6241

Vespidae, pollinators, figs 3827**Vetiver** (see *Vetiveria zizanioides*)**Vetiveria zizanioides**

as cover crops

beetroots 4938

carrots 4938

leeks 4938

bibliographies 3532

cultural methods 3532

Viburnum, pollen, ultrastructure 3509**Viburnum odoratissimum**

photosynthesis

photoinhibition 7127

seasonal variation 2474

temperature 2474

Viburnum opulus

cultivars, clones 4386

taxonomy, nomenclature 2515

Viburnum rhytidophyllum, irrigation,

responses 4389

Viburnum tinus, pest control, *Pyrrhalta**viburni* 1658**Vicia faba**

chromosomes 5053

cotyledons, physiology 5961, 6854

cropping systems, intercropping 3204

cultivars

assessment

Israel 5952

Italy 5953

water stress 6856

cultural methods, mechanization 5950

disease control, *Uromyces viciae-fabae*

432

fertilizers, potassium 431

flowers, histology 8602

geotropism 10498

herbicides, injuries 4166, 5104, 8606

in vitro culture

responses

cultivars 6856

water stress 6856

intercropping

lettuces 3204

peas 3204

leaves

biochemistry, light 5960

cytology 7751

development, plant growth regulators

5054

mycorrhizas 5954

photosynthesis

herbicides 4166

light 5576

plant

biochemistry 435

composition 1385

Vicia faba *cont.*plant *cont.*

development, apical dominance 10071

plant growth regulators

fusaric acid, physiology 6766

IAA, responses 4168

triactanol, responses 1383

plant nutrition

nitrogen 2241

zinc 8602

plant residues, utilization, fodder 2119

pollen, ultrastructure 8602

pollution

ozone 2144

sulfur dioxide 3203

reproduction, physiology 5060

roots

biochemistry, geotropism 10498

cytology 5956, 7751, 8606

physiology 5053

salinity

responses 2241

tolerance 5955

seedlings

biochemistry 3207, 5958-5959, 10497

development, pollution 2240

seeds

germination

biochemistry 428-429, 10497

pollution 2240

mechanical properties, assessment

1382

stomata

biochemistry 1384, 2242, 4169

movement

biochemistry 6855

physiology 433-434

temperature 4167

physiology

ion transport 3206

light 5957

plant growth regulators 4168

research 8601

taxonomy, chemotaxonomy 5951

translocation, physiology 6248

transpiration, physiology 3205

water stress, responses 431, 4170

weed control 430, 8605

yields, diseases 3208

Vicia sativa

as cover crops

mandarins 6323

olives 8983

Vicia villosa

as cover crops

broccoli 9476

tomatoes 7806

as green manures

melons 6414

tomatoes 6014, 9586

Vietnam

coffee, production 5474

fruit crops, handling, techniques 4700,

4702

Litchi, production 2632

mushrooms, production possibilities 5147

subtropical fruits, production 2667

tomatoes, cultivars 8649

tropical fruits, production 2667

vegetables, handling, techniques 4700,

4702

Vigna, seeds, composition 8600**Vigna aconitifolia**, taxonomy, chemotaxonomy 8588**Vigna angularis**, seeds, composition 8600**Vigna parkeri**, as cover crops, temperate

fruits 5585

Vigna radiata

production possibilities, USA 8491

respiration, carbon dioxide 3736

storage

physiology 5986

systems, modified atmosphere storage

5986

Vigna unguiculata

as cover crops, mandarins 6323

harvesting, harvesting date, assessment

6876

planting, spacing 6876

seeds

development, models 5050

Vigna unguiculata cont.

seeds cont.

sowing, spacing 4178

Vigna unguiculata subsp. sesquipedalis

production possibilities, USA 8491

storage, systems, cold storage 5987

Vinca

seedlings

production, cultural methods 3380

storage 3380

Vinca minor

disease control

Glomerella cingulata 1659*Phoma exigua* var. *inoxydabilis* 1659

photosynthesis

light 709

photoinhibition 708

shade, responses 692

Vinca rosea (see Catharanthus roseus)**Viola**

cultivars, assessment, USA 592, 5192, 6991

plant, development, growing media 51

pot plants, production, cultural methods 10609

Viola arvensis, as weeds, *Oenothera biennis* 770**Viola cornuta**

cultivars, assessment, Germany 10636

herbicides, tolerance 9693

pot plants, cultivars 10636

Viola odorata

fertilizers 9837

flowers, fragrance, biochemistry 10608

pest control, *Dasineura odoratae* 3422

plant growth regulators

ancymidol, responses 9838

gibberellic acid, responses 9838

paclobutrazol, responses 9838

Viola tricolor

frost

resistance

cultivars 10637

cultural methods 10637

planting, planting date 10637

protected cultivation

cultivars 10637

temperature 10637

Viola witrockiana

cultivars, assessment, Germany 10636

cultural methods, USA 624

growing media, composition 3381

herbicides, injuries 8745

irrigation, frequency 5177

planting stock, production, cultural methods 3381, 5177

pot plants, cultivars 10636

Viruses*Capsicum* 5999

carnations 1531

Cucurbita pepo 5897

garlic 7658

grapes 8467

hops 10770

melons 3665, 4609

ornamental plants 1524

pears 1157

tomatoes 7808

tulips 1568

Vismia guianensis*in vitro* culture, propagation, responses 2570

plant, ultrastructure 2570

Vitacea polistiformis, grapes 288**Vitamin A (see Retinol)****Vitamin B complex**

composition, persimmons 4561

uptake, spinach 347

Vitamin C (see Ascorbic acid)**Vitamin D**, composition, tomatoes 7819**Vitamin E**

composition

Capsicum 5081*Rubus* 1196

responses, apples 1073

Vitamins

composition

persimmons 4561

strawberries 4883

tea 10018

Vitamins cont.

metabolism

ripening, *Capsicum* 10531

seasonal variation, algae 3325

nutrition, *Lentinula edodes* 575

responses

Flammulina velutipes 1502

mandarins 3609

Pleurotus ostreatus 3370**Vitellaria paradoxa**

cropping systems, agroforestry 3553

plant residues, utilization, waste water

treatment 8045

Viteus vitifoliae, grapes 3960**Vitex negundo**

leaves, physiology 9861

plant, development, phenology 5345

Vitis (see also Grapes)

cultivars, identification 1220

defoliation, responses 2098

disorders, chlorosis 3976

fruits

quality

assessment 2098

defoliation 2098

in vitro culture

culture media 3064

organogenesis 6546

propagation, techniques 10317

protoplasts 5753

responses, pH 3064

somatic embryogenesis 5753

leaves, composition 1252

photosynthesis, *in vitro* culture 8485

rootstocks, taxonomy 1220, 6690

species, identification 1220

taxonomy

chemotaxonomy 5743

morphology 4900

wild plants, taxonomy, China 4900

Vitis aestivalis, *in vitro* culture, propagation,

micropropagation 4908

Vitis amurensis

dormancy, physiology 8482

plant nutrition, iron 3976

Vitis berlandieri, plant nutrition, iron 3976**Vitis berlandieri × Vitis riparia**

as rootstocks, grapes 4915, 5752, 10316,

10330

rootstocks, taxonomy 1226

Vitis berlandieri × Vitis rupestris

as rootstocks, grapes 5752

cuttings, treatment 6687

rootstocks, propagation, biochemistry

6687

Vitis californica, plant nutrition, iron 3976**Vitis champini**, *in vitro* culture, propagation,

micropropagation 4908

Vitis cinerea, plant nutrition, iron 3976**Vitis coignetiae**, dormancy, physiology 8482**Vitis longii**, plant nutrition, iron 3976**Vitis monticola**, plant nutrition, iron 3976**Vitis riparia**, plant nutrition, iron 3976**Vitis riparia × Vitis rupestris**, as rootstocks,

grapes 2080, 5752

Volatile compounds

biochemistry

grapes 10356

plants, reviews 3729

tea 7369

biosynthesis, algae 10807

characterization

lettuces 371

Spondias dulcis 3695

tamarillos 3635

composition

apples 9224

Boronia megastigma 2527

boysenberries 9349

Brugmansia candida 10729*Calanthe* 10698

chicory 2156

Citrus, reviews 8085*Citrus sudachi* 4535*Daphne mezereum* 6216*Dimocarpus longan* subsp. *male-**sianus* 10878

edible fungi 6060

feijoas 2631

Filipendula vulgaris 10606

grapefruits 4535

Volatile compounds cont.

composition cont.

grapes 261, 1256, 2106

Hemerocallis citrina 2394*Herichium erinaceus* 1503*Landolphia heudelotii* 8034*Landolphia senegalensis* 8034

longans 10878

Lupinus polyphyllus 10606*Nephelium mutabile* 10878

olives 9913

oranges 5409

Papaver rhoeas 10606

rambutans 10878

Sauromatum guttatum 7885

strawberries 3023, 4897

Syzygium 5527

tea 7368

tomatoes 547, 549

Tuber magnatum 10603*Vitis* 2098

determination

lettuces 7691

passion fruits 3627, 6363

strawberries 4898

Tuber magnatum 2365*Tuber melanosporum* 2365

emission, grapes 295

metabolism

biochemistry, tomatoes 4250

carbon dioxide, persimmons 8993

cultural methods

apples 8315

grapes 6698

development, melons 5490

flowering, essential oil plants 10756

gamma radiation, garlic 8504

harvesting date, peaches 182

light, lettuce 7692

maturity, tea 4649

photoperiod, lettuce 7692

plant training, grapes 6703

ripening

apples 1983, 9201, 10152

apricots 10186

Capsicum 480

melons 5490

nectarines 3885

peaches 3885

Pyrus ussuriensis 10242

seasonal variation, tea 9098

storage

apples 2917, 8315

nectarines 185

peaches 182, 185

tomatoes 7830

temperature, lettuce 7692

Volcanic ash, utilization, growing media,*Bactris gasipaes* 5524**Volcanic lava**

utilization

growing media

chrysanthemums 3386

horticultural crops 6511

Voles

apples 1968, 6567

cherries 6601

Salix cinerea 2513**Volucella**, pollinators, *Prosopis velutina*

2512

Volvariella, growing media, composition

6970

Volvariella diplasia, spawn, production 4266**Volvariella esculenta**

growing media, composition 6078

storage, biochemistry 6078

Volvariella speciosa, growing media, utiliza-

tion 6079

Volvariella volvacea

composition 6972

drying, models 6988

growing media

composition 1508

utilization 3374

moisture content, models 6988

mycelium, growth 3374

protected cultivation, systems, growth

chambers 10604

spawn, production 4266

Vriesea, species, ornamental value 1587

- Waitzia suavis var. flava**
seeds
germination
light 594
seed treatment 594
temperature 594
- Walnuts**
budding
rootstocks, treatment 7555
scions, treatment 7555
cultivars
assessment, Netherlands 9328
characteristics, France 7554
composition 10260
development 5689
disease control
USA 9330
Xanthomonas campestris pv.
juglandis 3750
enzyme activity, *in vitro* culture 2986
flowers
development
anatomy 2987
biochemistry 8391
fruits
development
apomixis 5694
biochemistry 8392
grafting
techniques, assessment 9329
unions, treatment 9329
handling, techniques 6535
harvesting
harvesting date, assessment 7556
techniques
assessment 7556
mechanical harvesting 5588
in vitro culture
biochemistry 2985
culture media 2034
organogenesis 5690, 10256
propagation, micropropagation 8388-8389, 10255
responses
carbon dioxide 2986
light 2986
irrigation, requirements, determination 2035
mulching, responses 10086
nutrients, cycling 8390
nuts
biochemistry, cultivars 10260
composition 10261
mechanical properties, assessment 7557
size, pruning 10257
pest control, USA 9330
pests, surveys, Turkey 6641
photosynthesis, *in vitro* culture 2986
plant
canopy, microclimate 5691
development, physiology 3706
plant growth regulators, paclobutrazol, responses 1183
plant nutrition, boron 7445
plant training, systems 3747
planting, spacing 2035
pollution, tolerance 7441
production, Turkey 8387
pruning, systems, assessment 10257
roots, development, physiology 8389
rootstocks, propagation, *in vitro* culture 8388
seeds
biochemistry, plant growth regulators 10256
sowing
depth 1182
orientation 1182
shoots
development
assessment 5692
cultivars 5689
morphology 5689
sorting, techniques 10259
storage
disease control 209
humidity 208
temperature 208
treatment 209
taxonomy, cytotoxonomy 2984
- Walnuts cont.**
weed control 8268
- Warmingia**, taxonomy, nomenclature 7056
- Washingtonia robusta**, photosynthesis, measurement 7128
- Waste wood**, utilization, growing media, cucumbers 3173
- Water chestnut** (see *Trapa natans*)
- Water relations** (see Plant water relations)
- Water stress** (see also Drought; Plant water relations)
cultural methods, *Quercus shumardii* 6235
measurement, subtropical crops 10817
physiology
apples 122
celery 1488
responses
Actinidia eriantha 10268
almonds 10091
apples 94-95, 122, 1102, 2907, 5605, 6575
avocados 4485
Betula pendula 8867
Citrus macrophylla 8957
clementines 9882
coconuts 10920
coffee 7304-7305, 9956
cucumbers 3190, 5016
Cymbidium sinense 1601
Dendrobium ekapol 4378
durians 4652
Ferocactus peninsulae 8829
fruit crops 6520
grapefruits 7210, 8957
grapes 2096, 7630, 9390, 9409, 10326
guavas 10942, 10944
kiwifruits 6643, 9337, 10268
Laurus nobilis 7121
lawns and turf 666, 7036
lettuces 4992
Litchi 1749, 3614
mangoes 8151
Mesembryanthemum crystallinum 6161
onions 4040
Opuntia ficus-indica 5446
Pachycereus pecten-aboriginum 8829
passion fruits 7252
pawpaws 6437
peaches 6616, 8354
peas 3217, 6865, 6868, 8610
Phaseolus vulgaris 3200
plums 9324
Portulaca grandiflora 7923
Prunus laurocerasus 7121
Quercus laurifolia 5295
radishes 9494
Rhododendron 6195-6196, 9782, 10721
satsumas 8077
Saxifraga cernua 6117
Thymus vulgaris 4445
tomatoes 502, 1461, 2314, 3260, 3267-3268, 3310, 4209, 4238, 5095, 6016, 8657, 9602-9603
Trigonella foenum-graecum 5324
Vicia faba 431, 4170
sex, lawns and turf 7035
- Watercress**
buds
development, *in vitro* culture 10460
initiation, *in vitro* culture 10460
electrical properties, physiology 6806
leaves, senescence 6257
plant
biochemistry 9498
composition 10368
development, cultural methods 9497
- Waterlogging**
responses
apples 94-95, 4781
cashews 1790
Pyrus betulifolia 10237
Pyrus calleryana 10237
Pyrus pyrifolia 10237
strawberries 3015, 10301
rootstock scion relationships, grapes 2077
- Watermelon mosaic 2 potyvirus**
Lagenaria siceraria 5890
- Watermelon mosaic 2 potyvirus cont.**
melons 3668
- Watermelon mosaic potyvirus**, watermelons 1817
- Watermelons**
conferences 5542
cotyledons, biochemistry 3671
cropping systems, intercropping 36
cultivars
assessment, Brazil 7405
characteristics
China 9959-9960
USA 1807
disease resistance 1807
identification 904
pollution 9962
disease control
cucumber mosaic cucumovirus 1817
Fusarium oxysporum f.sp. *niveum* 4607
Fusarium solani 9966
Phytophthora drechsleri 9966
Pythium aphanidermatum 9966
watermelon mosaic potyvirus 1817
zucchini yellow mosaic potyvirus 3176
disorders, hollow heart 6421
drought, measurement 9964
economics, Australia 3160
flowers
sex
photoperiod 912
temperature 912
fruits
development, parthenocarp 2710
maturity, assessment 6421
mechanical properties, measurement 3673
quality
assessment 2712
plant growth regulators 2705, 2710
set, plant growth regulators 2710, 7429, 8144
grafting
cultural methods 4935
equipment 8564
rootstocks, assessment 9039
herbicides
injuries 9041
tolerance 3071
in vitro culture, propagation, micropropagation 1813, 4608, 9040
intercropping, rice 36
irrigation, requirements, determination 9964, 10933
mulching
materials 5484
responses 2702
nutrients, requirements, analysis 323
pest control
Acalymma vittatum 6417
Bemisia argentifolii 5778, 9044
Diabrotica undecimpunctata howardi 6417
Spain 2116
Thrips palmi 8577
plant
development
assessment 4611
models 2702
plant growth regulators 2705
plant water relations, cultural methods 1811
planting, spacing 906
pollution
ozone 9962
sulfur dioxide 9962
production
China 1347
Papua New Guinea 312
production possibilities, USA 8491
protected cultivation
plant nutrition 323
systems, row covers 2702
research, USA 1346
rootstock scion relationships, plant nutrition 9039
rootstocks, disease resistance 4607
seedlings
emergence, seed treatment 1809

Watermelons cont.

- seedlings *cont.*
 - production
 - containers 1811
 - energy requirements 6498
 - labour requirements 6498
- seeds
 - composition 2713, 10484
 - germination 1810
 - biochemistry 9961
 - seed treatment 9416, 10932
 - temperature 10932
 - treatment 1028, 1809, 10932
- soil solarization 9966
- surveys, Papua New Guinea 312
- taxonomy, chemotaxonomy 904
- weed control 9041

Waxes

- biochemistry
 - Euphorbia antisiphylitica* 2573
 - grapefruits 6340
 - biosynthesis
 - leeks 9436
 - peas 9436
 - characterization
 - Arecaceae 1857
 - Cereus peruvianus* 8823
 - Hedera helix* 4391
 - composition
 - Encephalartos* 8876
 - Euphorbia milii* 9740
 - kale 391
 - Papaver* 10632
 - Papaveraceae 7880
 - Rubus thibetanus* 742
 - swedes 391
 - deposition, dates 5412
 - metabolism
 - light, *Thymus vulgaris* 4445
 - storage
 - apples 10159
 - grapefruits 6340
 - water stress, *Thymus vulgaris* 4445
 - production, *in vitro* culture, *Simmondsia chinensis* 9863
 - responses, *Citrus hassaku* 844
 - ultrastructure
 - cabbages 389
 - kohlrabi 378
 - Symphoricarpos* 8886
- Wedelia chinensis**
- allelopathy 8044
 - cuttings, treatment 6292
- Wedelia paludosa**, as weeds, *Hevea* 940
- Wedelia robusta**, shade, responses 692

Weed competition

- apples 5604
 - cabbages 1325
 - Capsicum* 7799
 - Chinese cabbages 6785
 - garlic 4023
 - Hevea* 10002
 - lawns and turf 7033
 - lettuces 9458
 - onions 2130, 9442
 - radishes 3156
 - strawberries 2063-2064
 - tomatoes 499, 6012, 7799
- Weed control**
- Allium* 10366
 - Anethum graveolens* 1671
 - apples 1074-1076, 1949, 2869, 3766, 4767, 5604, 7467, 8267-8269, 10110
 - Asparagus* 2263, 5990, 9544
 - avocados 2582
 - Bactris gasipaes* 4651, 9105
 - bananas 1784
 - bedding plants 2377
 - books 1872
 - broccoli 1326, 9476
 - cabbages 377, 2181, 7702, 8548-8549, 9475
 - Capsicum* 37, 2131, 7773, 8494, 9559
 - carrots 1267, 2321, 3314, 6044, 6955, 7834, 8701
 - cauliflowers 377
 - chicory 357
 - Citrus* 1720, 6324, 8944, 9884
 - books 9114
 - cocoa 4592

Weed control cont.

- coffee 3657, 6401-6402, 7296
- conferences 18, 1012
- Coriandrum sativum* 1671
- cucumbers 8494
- Cucurbitaceae 9510
- Daphne burkwoodii* 2372
- durians 37
- endives 7687
- fruit crops 1033, 2817, 8213-8214
- Gaillardia grandiflora* 2372
- Gardenia jasminoides* 6220-6221
- garlic 2122, 4023, 4949, 5785, 6745-6746
- Gladiolus* 6125
- grapes 265, 2093, 3035, 3969, 4911, 7613, 8214, 8268, 8454-8458, 9389, 9395
- Hevea* 940, 6442-6445, 9075
- hops 9841
- horticultural crops 1035-1036, 2818, 5563, 8187
- lawns and turf 667-668, 2420-2421, 3443, 6141, 6143-6149, 8800-8805
- lemons 8057
- lettuces 1267, 6778, 7686-7687
- mandarins 6323, 8058
- mangoes 9884
- melons 9041
- Mentha arvensis* 6265
- Mentha piperita* 6265
- Ocimum basilicum* 7145
- Oenothera biennis* 770
- oil palms 37, 6434
- okras 2270, 9550
- olives 7242-7244, 8097
- onions 338, 1267, 1286-1287, 2131-2132, 5819-5820, 6044, 6751
- Origanum majorana* 7145
- Origanum vulgare* 9833
- ornamental plants 1522
- ornamental woody plants 2471, 7071, 7948, 8845
- pears 1949, 2011, 5675, 7467
- peas 8605
- Petroselinum crispum* 1671
- Phaseolus vulgaris* 1373
- Physostegia virginiana* 2372
- Pimpinella anisum* 1675
- pineapples 2735
- Polianthes tuberosa* 2416
- radishes 3156, 5835
- raspberries 7569, 8408
- Salix caprea* 2372
- Salvia officinalis* 9833
- small fruits 3907
- Solanum aethiopicum* 2319
- spinach beets 3121
- strawberries 2063, 3016, 6672, 9365
- tea 2757, 7356, 9091, 10010
- temperate fruits 1058, 4718
- tomatoes 500, 3264, 6920, 8494, 8658
- Trigonella corniculata* 8617
- Vaccinium* 236, 8415
- Vaccinium macrocarpon* 235, 8412
- Valerianella locusta* 3328
- vegetables 319, 2817
 - books 2109
- Vicia faba* 430, 8605
- walnuts 8268
- watermelons 9041

Weeds

- Finland, vegetables 320
- populations
 - assessment
 - almonds 2850
 - coffee 3658
- surveys
 - Algeria, horticultural crops 9136
 - India, fennel 6262
 - Spain
 - Asparagus* 7763
 - olives 7242
 - Ukraine, grapes 5757
 - USA, *Vaccinium angustifolium* 233

Weigela

- pollution
 - exhaust gases 10717
 - lead 10717

Weigela florida, planting stock, production, cultural methods 3466

Weigela subsessilis, cultivars, characteristics, USA 9769

Welsh onions

- bulbs, biochemistry 4051-4052
- cultivars, morphology 9451
- disease control, *Sclerotinia squamosa* 9450
- in vitro* culture
 - propagation, micropropagation 343, 4050, 5833
 - protoplasts 5816
 - mycorrhizas 3101
- pest control, *Spodoptera exigua* 3100
- plant extracts, application, *Lentinula edodes* 8733
- production
 - China 5810
 - Indonesia 5779, 5830
 - Papua New Guinea 5811
 - Taiwan 5797
- rain, responses 1264
- reports, Belgium 9127
- research, Indonesia 5779
- seeds, treatment 9449
- soil amendments 3101
- soilless culture, systems, nutrient film techniques 4966

West Africa

- bananas, cultivars 2673
- horticultural crops
 - books 3698
 - pest control 19
- onions, production 5800

Western X-disease, cherries 2936

Wheat

- as cover crops
 - Asparagus* 2263
 - tomatoes 7806
- as green manures, melons 6414

White currants (see also *Ribes rubrum*)

- cultivars
 - characteristics, Ukraine 5699
 - flowering date 3004
- fruits, composition 5701
- plant, development, phenology 3004
- seeds, composition 5701

Wild flowers

- establishment
 - lawns and turf 2424
 - meadows 1510

Wild plants

- cut flowers
 - marketing, Australia 2367
 - production, Australia 2367
- edible species 5298
 - Rosa* 8430
 - Russia 8430
- landscaping, USA 2455
- pot plants
 - bonsai 6080
 - marketing, Australia 2368
 - production, Australia 2368
- production, Brazil 6488
- surveys
 - India 5298, 6529
 - ornamental plants 5154

Wind

- injuries
 - bananas 3647
 - carambolas 5523
 - Citrus* 5371-5372

- protection
 - grapes 6322
 - mandarins 6322

responses, cashews 1790

Windbreaks (see also Shelterbelts)

- bananas 3647, 7272
- Citrus* 7208
- grapes 6322
- mandarins 6322

Winter hardiness (see also Cold; Frost)

- assessment
 - apples 8261
 - apricots 8261
 - Cactaceae 7038
 - grapes 5762
 - ornamental plants 6082
 - peaches 4823
- breeding, *Picea* 2478
- cultivars
 - apples 6538

- Winter hardiness** *cont.*
cultivars cont.
Camellia 713, 715, 3473
 grapes 6693, 6715
 ornamental woody plants 3468
Rhododendron 7956
Vaccinium 6662
 fertilizers
 apples 8365
 pears 8365
 physiology, *Aronia melanocarpa* 9375
 rootstock scion relationships, apples
 2859, 2862-2863
 seasonal variation, *Sedum* 1595
 species, ornamental woody plants 3468
- Wirework**, grapes 8462
- Withania somnifera**
 planting, spacing 5346
 seeds, production, cultural methods 5346
 soil types 8910
- Wood chips**
 utilization
 growing media, horticultural crops
 2814
 mulches
 almonds 10086
Citrus 10086
 lawns and turf 2424
 walnuts 10086
 soil amendments, lawns and turf 2424
- Wood shavings**, utilization, growing media,
 cucumbers 3172, 8567
- Woody plants** (*see* Ornamental woody
 plants)
 cuttings
 types
 root cuttings 6496
 softwood cuttings 6496
in vitro culture, somatic embryogenesis,
 books 1864
- World**
 fruit crops, research 29
 olives, cultivars 2646
- Worm casts**, utilization, growing media,
 tomatoes 5099
- Wounds**
 biochemistry
 bananas 8124
 lettuces 1317
 tomatoes 2310, 4242, 6945
 healing, clementines 4529
 physiology
 bananas 8124
 cucumbers 5915
 tomatoes 2317-2318
 responses
Hevea 4640
Hibiscus rosa-sinensis 4418
- Xanthium pungens**, as weeds, onions 5820
- Xanthomonas**
 epiphytes, tea 10019
Pelargonium 10623
- Xanthomonas campestris** *pv.* *campestris*
Brassica 10448
 cauliflowers 10447
- Xanthomonas campestris** *pv.* *citri*
Citrus 4492, 7208
 limes 829
- Xanthomonas campestris** *pv.* *juglandis*, wal-
 nuts 3750
- Xanthomonas campestris** *pv.* *mangiferae*
aeindicae, mangoes 3678, 10956-10957
- Xanthomonas campestris** *pv.* *pelargonii*
Pelargonium peltatum 7000
Pelargonium zonale 7000
- Xanthomonas campestris** *pv.* *pruni*
 almonds 3750
 plums 8383, 9318
 stone fruits 3750
- Xanthomonas campestris** *pv.* *vesicatoria*,
 tomatoes 5105
- Xanthomonas fragariae**, strawberries 1211,
 3020
- Xanthophylls**, metabolism, light, grapes
 3063
- Xanthorhiza simplicissima**, ornamental value
 3510
- Xiphinema americanum**, grapes 7599
- Xylella fastidiosa**, almonds 3750
- Xylobium**, taxonomy, nomenclature 7056
- Xylocopa**, pollinators, *Epimeredi indica* 8010
- Xylophilus ampelinus**, grapes 10334
- Yearbooks**
 avocados 12, 2795, 5539
Camellia 5538
 fruit crops 1001, 1876
Lilium 11
Litchi 1002
 mangoes 10045
 nut crops 1001, 1876
 vegetables 2796, 3704
- Yellow vein mosaic bigeminivirus**, okras
 5991
- Yemen**, succulent plants, ecology 1584
- Yields**
 correlation
 bananas 1787, 2673
 beetroots 10396
 cashews 8131
 cauliflowers 3151
 cucumbers 2221
Gladiolus 10644
 grapes 4910
 mangoes 2724
 mushrooms 2352, 8724
 oil palms 2729, 9059
 okras 463
 radishes 6805
 tamarinds 10026
 tomatoes 1471
 diseases
 Brassicaceae 10455
 cauliflowers 10447
 cocoa 9017
 coffee 2693
Coriandrum sativum 6245
 grapes 9414
 hops 10770
 oil palms 1839
 oranges 8078
Phaseolus vulgaris 5948
 tomatoes 516, 4249
 vegetables 1365
Vicia faba 3208
 disorders
Citrus 8965
 mandarins 8067
 forecasting
 apples 7460
 avocados 807, 5358
 grapes 1233
 oil palms 9059
 temperate fruits 2848
 tomatoes 8693
Vaccinium macrocarpon 3010
Vaccinium myrtillus 3010
Vaccinium oxycoccus 3010
 vegetables 6742
 models
 avocados 5358
 temperate fruits 2848
Zingiber officinale 8890
 pests
 apples 137
 aubergines 4201, 6035
Capsicum 1410, 4195, 6904
 coconuts 899
 fennel 5303
 lettuces 4082
 melons 9045
 mushrooms 4270
 okras 6895, 7769, 9555
 peaches 8355
 peas 3222
 tea 2759, 3690
 tomatoes 4082, 6035, 7828
 research, mangoes 10958
 weeds
 spinach 3120
 strawberries 2063
- Yponomeuta malinellus**
 apples 3791
 fruit crops 7479
- Yttrium**, composition, coffee 9029
- Yucca aloifolia**
in vitro culture, somatic embryogenesis
 9749
 pot plants, storage 10607
- Yucca brevifolia**, seeds, composition 1052
- Yucca carnerosana**, leaves, anatomy 757
- Yucca declinata**, taxonomy, new taxa 5249
- Yucca glauca**, photosynthesis, photoinhibi-
 tion 708
- Yucca linearis**, taxonomy, nomenclature
 9750
- Yugoslavia**
 cabbages, cultivars 8542
Capsicum
 cultivars 3231
 hybrids 3231
 cherries, cultivars 2931
 olives, cultivars 2645
 plums, cultivars 1175
- Zaire**, wild plants, edible species 1025
- Zantedeschia aethiopica**
 chloroplasts, biochemistry 1559
 flowers, composition 1559
 leaves, composition 1559
 reproduction, biology 9718
- Zelkova serrata**, frost, resistance, assessment
 3469
- Zeolites**
 utilization
 growing media
 carnations 3383
Gerbera 8755
 soil amendments
 horticultural crops 2813
 lettuces 2164
- Zero gravity**, responses, cress 5879
- Zetzelia mali**
 control, of *Panonychus ulmi*, apples 1090
 grapes 3060
- Zeuxine debrajiana**, taxonomy, new taxa
 9766
- Zeuxine longilabris**, flowers, anatomy 7927
- Zeuzera coffeae**, *Pimenta dioica* 3514
- Zeuzera pyrina**, olives 1763
- Zieria prostrata**, characteristics 2370
- Zimbabwe**
 bananas
 production 1779
 research 1779
 onions
 cultivars 4036
 production 5814
Phytolacca dodecandra
 climate 2563
 cultivars 9843
- Zinc**
 composition
 algae 8219
 apples 2922, 7473, 8219, 8263
 avocados 6306
 bananas 9935
Citrus 8219
 coffee 9029
 edible fungi 1497
Gerbera 8219
Hibiscus 9428
Ilex paraguariensis 10788
Juglans 10261
 kiwifruits 7559
Lentinula edodes 5149
 lettuces 10412
 mangoes 1836
Oenothera biennis 1688
Oenothera paradoxa 1688
 olives 3620
Osmunda japonica 1497
 persimmons 4561
Rubus 1196, 9348
Syzygium jambos 9110
Talinum triangulare 6968
 temperate fruits 10069
 vegetables 9428
 walnuts 8392
 deficiency
 apples 8285
 cucumbers 7734
Cucurbita maxima 2203
 grapes 9394
 oranges 4508, 5383
Pyrus 2968
 tomatoes 512
Vicia faba 8602
 determination
 dates 4537
 guavas 2717
 fertilizers
 apples 1082, 2887, 7478
 avocados 799, 6306, 7190

Zinc cont.

fertilizers cont.

- cauliflowers 381, 4691
- garlic 6747
- grapes 6704
- Hevea* 4639
- lemons 7205
- Litchi* 855
- mandarins 5381
- okras 510
- onions 4042, 7670
- oranges 2594, 4508, 7214
- pears 1082
- Petroselinum crispum* 4691
- roses 8862
- sour oranges 8947
- spinach 4691
- tea 10014
- tomatoes 510
- Zingiber officinale* 8891
- Ziziphus mauritiana* 966

metabolism

- biochemistry, *Rosa roxburghii* 4403
- cadmium, cabbages 7708
- cultural methods, peaches 9291
- development, carambolas 6464
- disorders, oranges 6331, 9889
- fertilizers, *Alocasia regina* 7042
- fruiting, mangoes 1827
- in vitro* culture, *Malus* 1103
- iron

- Malus* 1103
 - onions 6754

- irrigation, pomegranates 10898
- mycorrhizas

- cherries 1132
 - Cymbopogon winterianus* 7141

nitrogen

- peaches 2954
 - pears 2954

phosphorus

- Citrus limonia* 8060
 - mandarins 8060
 - peaches 2955
 - pears 2955

- plant growth regulators, pomegranates 10898

- plant nutrition, tomatoes 10563

- potassium, apples 4772

rootstock scion relationships

- limes 10826
 - oranges 3584
 - peaches 3844

salinity

- grapes 8459
 - peaches 3849, 3857

seasonal variation

- Asparagus* 3226
 - Protea* 741
 - walnuts 8391
 - Ziziphus sativa* 11016

- soil compaction, *Cymbopogon winterianus* 7141

soil pH

- carrots 8702
 - pears 8363
 - plums 8363
 - Vaccinium* 1200

- storage, apples 4732

- temperature, mangoes 4630

- zinc, *Hibiscus rosa-sinensis* 1648

plant nutrition

- aubergines 5082
 - blackberries 10279
 - cashews 1794
 - cauliflowers 3143, 7704
 - chrysanthemums 3392
 - dates 7231
 - garlic 4951
 - grapes 274, 9392
 - Hebe* 3505
 - lettuces 8535
 - mandarins 4506, 5381
 - olives 863
 - oranges 4508, 9889
 - pawpaws 9991
 - Rosa damascena* 7148
 - sour oranges 8947
 - strawberries 10296
 - tea 10014, 11008
 - tomatoes 9598

Zinc cont.

requirements

analysis

- apples 8279
 - cabbages 4094
 - cherries 2935
 - grapes 6704
 - Litchi* 10876

responses

- mandarins 8960
 - passion fruits 10890

toxicity

- cauliflowers 3143, 4691
 - lawns and turf 10670
 - Pelargonium hortorum* 4291
 - Petroselinum crispum* 4691
 - Phaseolus vulgaris* 8591
 - spinach 4691
 - Tagetes patula* 9692
 - Vicia faba* 2240

translocation

- apples 2887
 - avocados 7190
 - tomatoes 5113

uptake

- Capsicum* 2279
 - cherries 3819
 - cucumbers 5895
 - garlic 4025
 - grapes 3051
 - guavas 6425
 - horticultural crops 8223
 - lettuces 4077, 4941
 - oranges 3607
 - spinach 4941
 - spinach beets 351, 3122
 - strawberries 2060, 3940
 - Trigonella foenum-graecum* 4941
 - vegetables 325, 2113, 4014, 5771, 9427

- Zingiber mioga*, production, New Zealand 2522

Zingiber officinale

cultivars

- assessment, India 1668
 - disease resistance 3519
 - cultural methods, India 10066

disease control

- Fusarium oxysporum* f.sp. *zingiberi* 1669
 - Phyllosticta* 3516
 - Pseudomonas zingiberi* 8892
 - Pythium aphanidermatum* 6250

fertilizers

- boron 8891
 - potassium 7136
 - zinc 8891

in vitro culture

- propagation
 - micropropagation 2523, 5325
 - techniques.9822

intercropping, coconuts 1668

manures 7136

pest control

- Meloidogyne* 10753
 - Meloidogyne incognita* 7999, 8893
 - Nematoda 3517, 3726
 - reviews 7986

- Pratylenchus* 10753

photosynthesis

- diurnal variation 3518
 - seasonal variation 3518

planting stock, types, assessment 8889

production, India 7998

seeds, treatment 1669

shade, responses 8890

soil amendments 7136, 10753

storage

- disease control 7137
 - packing 7137
 - treatment 7137
 - yields, models 8890

Zingiberaceae

taxonomy

- keys 7149
 - nomenclature 7149

Zinnia, vascular system 7014**Zinnia elegans**

- cut flowers, production, USA 1529
 - cytology 8782

- disease control, *Rhizoctonia solani* 10528

Zinnia elegans cont.

flowers

- development, mycorrhizas 7013
 - initiation, mycorrhizas 10634
 - in vitro* culture, biochemistry 3423
 - leaves, ultrastructure 2399
 - mycorrhizas 4692, 7013, 10634
 - plant, development, bacteria 4319
 - rhizosphere, microorganisms 4319
 - seedlings, development, mycorrhizas 7013

- vascular system 8782

Zirconium, composition, coffee 9029**Ziziphus**, databases 2771**Ziziphus jujuba** (see *Ziziphus mauritiana*; *Ziziphus sativa*)**Ziziphus mauritiana**

- cultivars, assessment, India 11020
 - disease control, *Oidium* 5520

fertilizers

- boron 966
 - iron 966
 - manganese 966
 - zinc 966

flowers, development, light 7370

fruits

- drop, spacing 11015
 - quality, cultivars 11020
 - set

- fertilizers 966

- pruning 965

- size, fertilizers 966

in vitro culture, propagation, micropropagation 5517

insecticides, residues 6463

mycorrhizas 5518

nutrients, requirements, analysis 1853

pest control, *Carpomyia vesuviana* 2772, 8169

photosynthesis, mycorrhizas 5518

planting, spacing 11015

pruning

- responses 965
 - systems, assessment 8168

salinity, responses 10020

storage

- diseases 967
 - packing 967
 - quality, plant growth regulators 967
 - treatment 968, 3694, 11019

Ziziphus nummularia

- in vitro* culture, responses, mycorrhizas 3691

- mycorrhizas 3691, 5519

Ziziphus rotundifolia, salinity, responses 11018**Ziziphus sativa**

cultivars

- characteristics, China 11014

storage 969

fertilizers

- nitrogen 11016
 - phosphorus 11016

fruits

- drop, physiology 7371

- quality

- fertilizers 11016

- storage 9615

- set, physiology 7371

nutrients, metabolism, seasonal variation 11016

plant nutrition, phosphorus 3692

storage

- quality, cultivars 969
 - systems, controlled atmosphere storage 9615

Ziziphus spina-christi, fruits, development, assessment 3693**Ziziphus vulgaris** (see *Ziziphus sativa*)**Ziziphus xylopyrus**

mycorrhizas 11017

plant nutrition, nitrogen 11017

Zoysia

economics, USA 1580

herbicides, tolerance 8807

plant, development, seasons 6139

Zoysia japonica

drought

- resistance
 - assessment 10667
 - cultivars 666

- Zoysia japonica* *cont.*
 - fertilizers, nitrogen 3445
 - fogging, responses 7033
 - in vitro* culture, propagation, micropropagation 665
 - irrigation, frequency 7034
 - photosynthesis, photoinhibition 6154
 - plant, development, temperature 10676
 - plant water relations, irrigation 7034
 - quality, assessment 3445
 - shade, responses 1579
 - transpiration, measurement 4356, 10675
 - weed competition 7033
- Zoysia japonica* × *Zoysia tenuifolia*,
 - drought, resistance, cultivars 666
- Zoysia matrella*
 - drought, resistance, cultivars 666
 - oversowing 7910
- Zoysia sinica*, *in vitro* culture, propagation,
 - micropropagation 665
- Zoysia sinica* × *Zoysia matrella*, *in vitro*
 - culture, propagation, micropropagation 665
- Zucchini yellow mosaic potyvirus**
 - cucumbers 1349
 - Cucurbitaceae 3176
 - Lagenaria siceraria* 5890
 - melons 3668
- Zygophiala jamaicensis*
 - apples 5610
 - Citrus* 1725
 - pears 10235

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| Acta Agriculturae Boreali-Sinica | Agrochemicals Japan |
| Acta Agriculturae Nucleatae Sinica | Agrochimica |
| Acta Agriculturae Shanghai | Agroforesteria en las Américas |
| Acta Agriculturae Sinica | Agroforestry Systems |
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| Acta Agrobotanica | Agronomía Tropical (Maracay) |
| Acta Agronomica Hungarica | Agronomie |
| Acta Agronomica Óváriensis | Agronomski Glasnik |
| Acta Agronomica Sinica | Agronomy Journal |
| Acta Biochimica et Biophysica Sinica | Agropecuária Catarinense |
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| Acta Biotheoretica | Agrotica |
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| Acta Botanica Sinica | Alimentaria |
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| Acta Entomologica Chilena | Allergy (Copenhagen) |
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| Acta Horticulturae Sinica | Aloe |
| Acta Mycologica Sinica | Alon Hanotea |
| Acta Oecologica | Ambio |
| Acta Physiologiae Plantarum | American Camellia Yearbook |
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| Acta Phytophysiological Sinica | American Journal of Botany |
| Acta Phytotaxonomica Sinica | American Journal of Chinese Medicine |
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| Advances in Forestry Research in India | Anales del Jardín Botánico de Madrid |
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| Advances in Horticulture | Ancient Science of Life |
| Advances in Plant Sciences | Angewandte Botanik |
| Aerobiologia | Angewandte Botanik Berichte |
| African Journal of Mycology and Biotechnology | Ankara Üniversitesi Ziraat Fakültesi Yılı |
| AFZ, Allgemeine Forst Zeitschrift | Annales de l'Institut National de la Recherche Agronomique de Tunisie |
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| Agfacts - Department of Agriculture, New South Wales | Annali della Facoltà di Agraria, Università degli Studi di Perugia |
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| Agnote - NSW Agriculture | Annals of Agricultural Science (Cairo) |
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| Agrarforschung | Annals of Applied Biology |
| Agrarwirtschaft | Annals of Arid Zone |
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| Agribiological Research | Annals of Biology (Ludhiana) |
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 Hassadeh
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 Hodowla Roślin, Aklimatyzacja i Nasiennictwo
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 Horticulture Française Magazine
 Horticulture in New Zealand
 Horticulturist
 HortScience
 HortTechnology
 Hygiene and Nutrition in Foodservice and Catering
 IAR Newsletter of Agricultural Research
 Igiene Moderna
 IITA Research
 INBAR Newsletter
 Indian Agriculturist
 Indian Cocoa, Arecanut and Spices Journal
 Indian Coconut Journal (Cochin)
 Indian Coffee
 Indian Forester
 Indian Horticulture
 Indian Journal of Agricultural Research
 Indian Journal of Agricultural Sciences
 Indian Journal of Agronomy
 Indian Journal of Chemistry. Section B, Organic including Medicinal
 Indian Journal of Ecology
 Indian Journal of Entomology
 Indian Journal of Environment and Toxicology
 Indian Journal of Experimental Biology
 Indian Journal of Forestry
 Indian Journal of Hill Farming
 Indian Journal of Microbiology
 Indian Journal of Mycology and Plant Pathology
 Indian Journal of Natural Rubber Research
 Indian Journal of Plant Physiology
 Indian Journal of Virology
 Indian Phytopathology
 Indonesian Agricultural Research & Development Journal
 Industrial Crops and Products
 Industrie Alimentari
 Infomusa
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 Interciencia
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 International Archives of Allergy and Immunology
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 International Journal of Sustainable Development and World Ecology
 International Journal of Tropical Agriculture
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 International Pest Control
 International Plant Propagators' Society: Combined Proceedings
 International Tree Crops Journal
 International Water & Irrigation Review
 Investigación Agraria, Economía
 Investigación Agraria, Producción y Protección Vegetales
 IPM Practitioner
 Iranian Journal of Agricultural Sciences
 Irrigation Science
 Irrigazione e Drenaggio
 Israel Agritechology Focus
 Israel Journal of Plant Sciences
 Italian Journal of Food Science
 ITC Journal
 ITEA Producción Vegetal
 Ivy Journal
 Izvestiya Timiryazevskoi Sel'skokhozyaistvennoi Akademii
 Japanese Journal of Applied Entomology and Zoology
 Japanese Journal of Crop Science
 Japanese Journal of Ecology
 Japanese Journal of Soil Science and Plant Nutrition
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 JARQ, Japan Agricultural Research Quarterly
 Jiangsu Journal of Agricultural Sciences
 JIRCAS International Symposium Series
 Journal for Farming Systems Research-Extension
 Journal International des Sciences de la Vigne et du Vin
 Journal of Agribusiness
 Journal of Agricultural and Applied Economics
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 Journal of Fruit Science
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 Mededeling - Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare
 Mededelingen - Faculteit Landbouwkundige en Toegepaste Biologische Wetenschappen, Universiteit Gent
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 Phytoma
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 Phytom (Horn)
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 Phytopathologia Mediterranea
 Phytopathology
 Phytoprotection
 PKV Research Journal
 Plant and Cell Physiology
 Plant and Soil
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 Plant Cell Incompatibility Newsletter
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 Plant Cell, Tissue and Organ Culture
 Plant Disease
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 Plant Foods for Human Nutrition
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 Plantations, Recherche, Développement
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 Planters' Chronicle
 Plasticulture
 PNG Coffee
 Polish Journal of Food and Nutrition Sciences
 Poljoprivredna Znanstvena Smotra
 PORIM Bulletin
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 Potash Review
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 Rapport - DLO-Instituut voor Agrobiologisch en Bodemvruchtbaarheidsonderzoek
 Rasen-Turf-Gazon
 Rasteniye "dni Nauki
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 RDA Journal of Agricultural Science, Biotechnology
 RDA Journal of Agricultural Science, Crop Protection
 RDA Journal of Agricultural Science, Farm Management, Agricultural Engineering, Sericulture, & Farm Products Utilization
 RDA Journal of Agricultural Science, Horticulture
 RDA Journal of Agricultural Science, Upland & Industrial Crops
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 Weed Research (Oxford)
 Weed Research, Japan
 Weed Science
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 Wood News
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 World Bank Technical Paper
 World Horticultural Trade & US Export Opportunities
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 Wuyi Science Journal
 Yakugaku Zasshi = Journal of the Pharmaceutical Society of Japan
 Yearbook - South African Avocado Growers' Association
 Yearbook - South African Litchi Growers' Association
 Yearbook - South African Mango Growers' Association
 Yearbook of the Heather Society
 Zahradnictví
 Zashchita Rastenii (Moskva)
 Zaštita Bilja
 Zbornik Biotehniške Fakultete Univerze v Ljubljani, Kmetijstvo
 Zeitschrift für Agrarinformatik
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Authoritative, accurate and up-to-date synopses of current topics reflected in the international media as well as the technical, scientific and medical press.

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ANI-CD – An authority file containing approximately 110,000 arthropod names with preferred terms, synonyms, common names, taxonomic positions and bibliographic references.

CABIKEY – An interactive diagnostic key for the identification of insects and other organisms. The first CABIKEY application covers major beetle families.

For further information contact:

CAB INTERNATIONAL

Headquarters	North America	Asia	Africa	Caribbean
Wallingford Oxon OX10 8DE UK	845 North Park Avenue Tucson, Arizona 85719 USA	PO Box 11872 50760 Kuala Lumpur Malaysia	PO Box 76520 Nairobi, Kenya	Gordon Street Curepe Trinidad and Tobago
Tel: (01491) 832111	Tel: (800) 528 4841	Tel: (03) 255 2922	Tel: (2) 747340 or 747377	Tel: (809) 662 4173
Telex: 847964	(602) 621 7897	Telex: 28031 (MA CABI)	Telex: 22040 ILRAD (KE)	Telex: (0294) 24438
(COMAGG G)	Fax: (602) 621 3816	Fax: (03) 255 1888	Fax: (2) 747 340	(CARIRI)
Fax: (01491) 833508	e-mail: cabi-nao@cabi.org	e-mail: cabi-aro@cabi.org	e-mail: cabi-roaf@cabi.org	Fax: (809) 663 2859
e-mail: cabi@cabi.org				e-mail: cabi-cro@cabi.org

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CAB INTERNATIONAL

Wallingford, Oxon OX10 8DE, UK

Tel: +44 (0)1491 832111; Fax +44 (0)1491 833508

CABI home page: <http://www.cabi.org/> E-mail: cabi@cabi.org Telex: 847964 (COMAGG G)

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CABI is dedicated to improving human welfare worldwide through the dissemination, application and generation of scientific knowledge in support of sustainable development, with emphasis on agriculture, forestry, human health and the management of natural resources, and with particular attention to the needs of developing countries.

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agriculture – forestry and forest products – field crops – grasslands – horticulture – crop protection – plant and animal breeding – veterinary science – leisure, recreation and tourism – rural sociology and development – environmental sciences – soils, land and water management – biotechnology – human and animal nutrition – human and animal parasitology – public health – communicable diseases – AIDS – tropical diseases – community health.

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Research and development is undertaken in innovative information systems. Training in information management is offered, especially for developing countries. Advice and practical assistance are given in the design and implementation of science-based information systems, and in the use of modern information technology. Where necessary, partnerships with development assistance agencies are sought to help developing countries acquire the products and services they need.

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SCIENTIFIC SERVICES

CABI's scientific services are centred on its four institutes.

International Institute of Entomology

56 Queen's Gate, London, SW7 5JR, UK,
and in the Natural History Museum

International Institute of Parasitology

395a Hatfield Road, St Albans,
Herts AL4 0XU, UK

International Mycological Institute

Bakeham Lane, Egham, Surrey TW20 9TY, UK

International Institute of Biological Control

Silwood Park, Buckhurst Road, Ascot,
Berks SL5 7TA, UK,

with field stations in Trinidad & Tobago,
Switzerland, Pakistan, Malaysia and Kenya.

The services provided include:

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- survey and diagnosis of plant health problems
- support for integrated pest management and biological control
- biosystematic research on arthropods, micro-organisms, nematodes and helminths
- diagnosis of biodeterioration problems for industry
- research on human mycoses and tropical parasitic diseases
- training, consultancy and advice in all these areas

CABI also provides the Technical Secretariat of the Consultative Group for BioNET INTERNATIONAL, an international cooperative endeavour dedicated to the development of effective biosystematic capabilities and services in developing countries.